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Connell says divestment policy will be reviewed**Anti-apartheid protestors disrupt Council meeting**

Despite a statement from President George Connell to Governing Council that he will review the University's divestment policy in May, about 250 demonstrators forced adjournment of the March 5 Council meeting by chanting "Freedom yes, apartheid no" and climbing onto the tables to taunt members who had voted against reconsideration of the policy. The meeting was resumed the next day (see story page 9).

Prior to the vote and disruption the president said he will recommend to the Executive Committee that there be a review of the University's divestment policy following the receipt, in May, of the next federal report on Canadian companies in South Africa. To booing and cries of "shame" from the protestors, Connell said the policy review could be completed in time for Council's October meeting.

Governing Council approved a South African divestment policy in September 1985. The policy makes provision for divestment of shares of companies that do not meet the employment standards set out in the Canadian code of conduct. The federal code contains guidelines on hiring, equal pay, working conditions, freedom of collective bargaining, training and promotion policies, racial integration in the workplace, and the provision of suitable accommodation for the people who work for Canadian companies in South Africa.

The president said he spoke March 3 to John Small, the federal administrator charged with monitoring the conduct of Canadian companies in South Africa. "I am fully satisfied that he understands our concerns," Connell said. "He gave me an undertaking that his report will in fact identify corporations and will provide specific assessments of them against the Canadian code of conduct."

All eyes on supernova

by George Cook

Supernova Shelton is misbehaving, a cause of great excitement among astronomers, astrophysicists and stargazers at large.

The exploding star, named for its discoverer, Ian Shelton, 29, the resident observer at the University's Las Campanas Observatory in central Chile, has failed to follow the theorized trajectory for such events. It is the brightest supernova since the one described by

In June 1986, the presidential advisory board on the social and political aspects of University investments studied the first report of the federal administrator and said it was dissatisfied with the code of conduct. In response, the president wrote external affairs minister Joe Clark to point out its shortcomings, among them the lack of benchmarks against which employment practices were measured and the absence of a rating system to compare companies.

The University owns about \$281,000 in shares in three Canadian companies with operations in South Africa: AmCa International (formerly Dominion Bridge), Cominco Ltd. and International Thomson Organization. The value of shares in American companies with South African interests is about \$4 million. Two companies about which the University had concerns — Falconbridge Ltd. and Moore Corporation — have recently withdrawn from South Africa.

In March 1986, Connell authorized the divestment of University shares in Alcan Aluminium Ltd. on the recommendation of the advisory board. "At the same time as that decision was made," Connell said, "Alcan actually divested itself of its own shares in the Hulett Aluminium Ltd. and thereby terminated its involvement in South African matters." Prior to divestment, Alcan owned 24 percent of Hulett. In March 1986 the University owned about \$2.4 million worth of Alcan stock.

Sell shares

On behalf of the anti-apartheid coalition, graduate student Akwatu Khenti, who was invited by the president to speak on the divestment issue, called on Governing Council to sell all shares in companies with investments in South Africa. To applause and cries of "indeed", Khenti said the great majority of South Africa's black political leaders support divestment and sanctions.

"Is the U of T fulfilling its role as a leader on human rights? No. Instead it is supporting apartheid. It is failing to answer the calls for help from the black people of South Africa by having stock



Protestors heckled Governing Council members as they voted March 5 on a motion to reconsider the University's policy on divestment. When the motion failed, the chanting activists forced Council to adjourn.

GERRIT VAN NIEUWENHUIZEN

Harassment policy referred back to administration

Governing Council voted by a large majority after a 90-minute debate March 6 to refer a proposed University policy on sexual harassment back to the administration for further consideration.

The motion to refer back was made by undergraduate Brian Burchell at a special meeting on Friday, called to complete the business left unfinished when the regular Thursday meeting was forced to adjourn by anti-apartheid demonstrators.

The policy will be reconsidered with a view to extending the time limit on sexual harassment complaints to six from four months, the limit agreed to by the U of T Faculty Association (UTFA). The administration has also been asked to examine a possible overlap in the definitions "sexual harassment" and "sexist language" and to report back at Council's April 16 meeting.

Under the University's Memorandum of Agreement with UTFA, the association must approve policies that could involve its members in disciplinary proceedings. The draft sexual harassment policy contains provisions for sanctions

against faculty members or others where complaints are upheld.

Council heard a representative from UTFA and several from the groups opposed to the four-month time limit on complaints — the U of T Staff Association (UTSA), the Association of Part-time Undergraduate Students, the Students Administrative Council (SAC) and the Graduate Students Union.

Those in favour of referral back said there were compelling arguments for a six-month time limit. Alumnus Brian Hill said the longer limit would allow those with complaints more time to bring them, making it less likely they would take their cases outside the University to the Ontario Human Rights Commission.

Undergraduate Anne-Marie Kinsley said the longer limit would give complainants and those accused more time to arrive at mutually agreeable settlements of their disputes, without recourse to the sexual harassment officer.

SAC representative Rachel Barney

Governing Council

Continued from Page 1

holdings in companies doing business in South Africa. Not only has the U of T failed to divest, but in these last few years it has actually gone and purchased stocks in companies doing business in South Africa.

"There has been no evidence presented to show that foreign investment has been instrumental in initiating any sort of social change in South Africa," Khenti said corporations profit from the cheap black labour created by apartheid policies. "These corporations also pay millions of dollars in taxes to the South African government, enabling it to develop its military and making it easier for the state to incarcerate and kill black people."

Foreign investment has increased in recent years at the same time as the South African government has imposed some of its most repressive laws, Khenti said.

"Investing in South Africa is a political act. Having already taken this political step, the University shows disdain for South Africa's black people. If apartheid is personally unacceptable, how can it be institutionally supported?"

The University's current policy has "racist and paternalist connotations," he said. "The black people of South Africa don't want reform of labour legislation — we want to be free. Avoiding this issue through non-action will not make us go away. Therefore I respectfully ask you not only to bring the motion to fully divest to the floor, but to divest now."

Vote taken

Following the president's report and Khenti's speech, part-time student Claire Johnson proposed a motion, seconded by undergraduate Anne-Marie Kinsley, to reconsider the divestment policy. It was Johnson who, at the Feb. 9 council meeting, gave notice of motion to reconsider the policy. However, the Executive Committee decided not to put the matter back on Council's agenda.

Johnson said the Canadian code of conduct is an inadequate and ineffectual response to apartheid. "Codes don't work and they never will." Motions to reconsider require two-thirds to pass and are non-debatable.

However, Council voted 16 to 13 against reconsideration of the divestment policy. As the vote took place, groups of protestors came down from the observers' area to taunt those members who did not favour the motion. Several members of Council — Father James McConica, president of St. Michael's, and undergraduate Brian Burchell, among others — were subjected to prolonged, abusive jeering by groups who gathered around their chairs or climbed onto the tables for the purpose. U of T police officers helped extricate them from the shouting protestors and, in at least one case, provided an escort out of the chamber.

Demonstrators not directly involved in the personal taunts continued to chant from the observers' seats. The

faculty members who took part in the demonstration did not join the chanting or heckling but remained in the chamber. Several plain-clothes police officers were present; they remained posted but did not intervene. When the meeting had been adjourned and most Council members had departed, it was some time before Khenti called an end to the demonstration.

"We have shown Governing Council the intensity of our feelings and the depth of our anger," he said. "The time for talk is over. We want action. I take no pleasure in disrupting a meeting, but in South Africa our children are being imprisoned, our people are dying. Their blood is on your hands. We will be free." The protestors slowly left the chamber and dispersed.

Despite the provocation, members of Council and the administration did not react angrily to the disruption. After the vote, Connell stood for some minutes and listened attentively while a protestor vehemently exhorted him to recommend complete divestment. In the course of the proceedings Council chairman St. Clair Balfour rose from his chair to restore order many times and responded with courtesy to the protestors' interjections.

The emotional chanting and speech-making and the angry jeering were ironically punctuated by small instances of courtesy. When Khenti finished his speech, Balfour thanked him and he responded with a polite "You're welcome." Later, when the protest had ended, an activist who several minutes earlier had led protestors onto the tables to taunt a Council member politely knocked at the door of the president's office to ask for his sweater, which he had apparently forgotten to take with him when an earlier occupation ended.

The events leading to the demonstration began at about noon March 4, the day before the meeting, when a group of about 20 anti-apartheid activists from the African & Caribbean Students' Association, the Arts & Science Students' Union, the Graduate Students' Union, the Young New Democrats and the U of T Communist Club marched from the International Student Centre on St. George Street to Simcoe Hall. They entered and made their way to the lobby of the president's office. The activists were prevented from entering the president's office when his secretary locked the door. However, they took up places in the outer office and began to study or talk.

Khenti said the occupation was not designed to gain publicity for the rally, but was a "symbolic gesture of disgust" at the University's decision not to adopt a policy of unconditional divestment. The protestors remained in the outer office over night and left late the next day to lead a rally outside Simcoe Hall before the Council meeting.

Connell was in Hamilton on the day of the occupation to attend a meeting of the Association of Universities & Colleges of Canada. He returned to Simcoe Hall at about 6.45 p.m. and met the demonstrators for about 45 minutes to explain the University's divestment policy and invite their representative to address Council the next day. He then spoke to reporters from the student press, the daily papers and at least two local television stations. The event was

reported on the 11 p.m. television news and in stories in the press the next day.

In a letter published in the March 5 *Varsity* a group of 72 faculty members called on Connell to recommend complete divestment or resign. Divestment is supported by the "overwhelming majority" of the University community, the letter said.

Despite the wide coverage of the oc-

cupation, attendance at the March 5 rally outside Simcoe Hall was relatively low. It began in the afternoon, but by 4 p.m. there were only about 150 participants.

Governing Council secretary Jack Dimond said Council was similarly forced to adjourn in the spring of 1984 when library workers who feared large budget cuts marched on Simcoe Hall.



Students occupied the lobby of the president's office March 4 to publicize their opposition to the University's policy on investments in companies with operations in South Africa. The participants remained in the office overnight.

Research incentive fund supports 16 U of T projects

U of T has done "extremely well" in the competition for funding by the province's University Research Incentive Fund, David Nowlan, vice-president (research), told the March 4 meeting of the Research Board. Sixteen U of T projects will receive about 50 percent of the \$2.7 government funding promised to a total of 42 projects. There were 89 submissions to the competition.

The URIF matches dollar for dollar private-sector investment in applied research at Ontario's universities. When first established by the Conservative government in 1984, the fund matched only 50 percent of private-sector investment. In 1985 the Liberal government suspended the program for review and the recent competition was the first of four to be held annually according to the new formula.

The government is still considering two major U of T applications for a total of \$900,000.

Among the 16 U of T projects approved to date and the maximum URIF funding promised for each are:

- \$554,000 for the development of a wind tunnel for research by Professor Rod Tennyson, director of the Institute

for Aerospace Studies, and Sannu Molder of Ryerson Polytechnical Institute, with private sector support from Viatic Resources Ltd.

- \$287,500 to Professors Andrew Baines and Douglas Templeton of clinical biochemistry, with private-sector support from MDS Health Group Ltd., for the development of a sensitive technique for discovering trace metals in body fluids

- \$135,000 to Professor Hugh Lawford of biochemistry, with private-sector support from George Weston Ltd., for a project on microbial exopolysaccharides — a type of bacteria that can be used, among other things, as food thickeners

- \$129,900 for a project directed by Professors Paul Horgen and James Anderson of the botany at Erindale on strain improvement in mushrooms, with private-sector support from the Campbell Soup Co. and the Canadian Mushroom Growers Association

- \$120,000 to Professor Douglas Lavers of electrical engineering for the development of software for computer-assisted design for power electronics, with private-sector support from Inverpower Controls Ltd.

Killam research fellowships

U of T chemistry professor James Guillet has received a Killam research fellowship for his work on the photophysics and photochemistry of antenna molecules.

The Canada Council Killam awards, which provide salary replacement, are given to support scholars of exceptional ability in a variety of fields. Although yearly reapplication is required, fellowships are usually granted for two years in succession.

Renewals this year went to Ian Hackling, Institute for History & Philosophy of Science & Technology (Philosophy: natural kinds and human kinds); J.B. Jones, chemistry (Applications of enzymes in organic synthesis); B.F. Madore, astronomy (The extragalactic distance scale); Michael Millgate, English (Final intentions: authorial representations of texts and selves); and E.J. Weinrib, law (The philosophical foundations of the law of torts).

Work expected to begin this fall

Deteriorating conditions of Borden Building spark calls for improvements

by George Cook

A recent incident at the Borden Building, home of the Department of Sociology, in which a professor's office was severely damaged when a water sprinkler burst, has provoked renewed calls from the department for renovations to the former industrial dairy.

At a faculty meeting Feb. 24 the department discussed the condition of the building and the advisability of launching a grievance through the faculty association over general working conditions and a specific complaint with the University's Office of Environmental Health & Safety.

It could take two to three years to renovate the troubled building, says Janice Oliver, assistant vice-president (facilities and administrative systems). Oliver said the timetable for improvements will be determined by the size of this spring's capital grants from the province and the exact cost of the renovation project.

The Ministry of Colleges & Universities has not yet announced the grants for 1987-88, but past experience indicates that the University will receive between \$3 million and \$4 million, Oliver said. The 1986-87 capital allocations were announced late in March last year.

Until the plans are drawn up, the exact cost of the project is uncertain, but it will exceed \$3 million. The University's architect will complete the drawings this summer, and work is expected to begin in the fall.

In November 1985 the Planning & Resources Committee approved a \$3 million capital expenditure for the building, half for improvements to meet fire safety standards and half for modernization. Work on the building was scheduled to begin in 1985, Oliver said, but was delayed when break-ins and vandalism required the expenditure of money and time to improve the security systems at the University's animal care facilities at 1 Spadina Crescent and elsewhere.

Despite the delay, improvements to meet the fire safety code remain the highest priority item on the University's list of capital projects. General renovations to the academic offices are also ranked highly, Oliver said.

Professor Michael Hammond, acting chair of sociology, said \$750,000 for fire renovations to the Borden Building was reallocated to make Bancroft Hall, recently moved to adjoin the former Textbook Store, ready for the University's computer services facility. Sociology wants assurances that this money will be restored to the Borden renovations account, Hammond said.

Members of the department had hoped that the renovation contract would be tendered this spring and that the work would be done during the summer.

The Borden Building must be improved to meet the fire code, a necessary precondition for approval of the Earth Sciences Centre, Hammond said. But improvements to meet the code will not make the building, which lacks central air conditioning, habitable in summer or provide enough faculty offices to house all members of the departments and some graduate students.

"Safe but spartan is just the beginning," Hammond said.

Valve bursts

Attention was focused on the poor condition of the building when the fire sprinkler in Professor Michael Bodemann's office burst, destroying his computer and damaging term papers, archival material and hundreds of books. A second incident, in which a steam pipe burst in another office, provoked further concern.

The incidents followed one last summer in which offices filled with smoke when sparks from equipment used in the removal of a portion of the building for construction of the Earth Sciences Centre touched off a fire in the basement.

In addition, many pipes are insulated with asbestos, which has been linked to cancer and asbestosis, and a number of transformers containing polychlorinated biphenyls, also carcinogenic, are kept in a buried tank, formerly for milk, beside the building.

With the exception of administrative offices, the Borden Building is not air conditioned. It is more resistant to temperature changes than many modern buildings, but it also retains



Repairs were made to Professor Michael Bodemann's office in the Borden Building, home of the Department of Sociology since 1964, after it was heavily damaged by a burst water sprinkler. The department has asked Simcoe Hall for a commitment to renovate the former dairy.

heat, so that most of its offices are almost uninhabitable in summer. Some of its interior offices have no ventilation at all and are uncongenial, regardless of the season, Hammond said.

Of the 26 faculty members in the building, 17 have offices elsewhere on campus — at the colleges and a variety of centres and institutes — or at home. The department has about 55 members, some at the Erindale and Scarborough campuses.

The dispersion of the department is "almost an exodus", Hammond said. "Internationally recognized faculty members have to hide out all over the campus."

While many find cross-appointments and, therefore, offices away from the department and are able to conduct their research without insurmountable inconvenience, their dispersion is detrimental to graduate students, Hammond said. The absence of a centre

of activity where students can interact with a variety of researchers makes it difficult to build a comprehensive view of the discipline. "We have trouble maintaining the critical mass for graduate studies."

The situation is particularly vexing because the department receives greater recognition internationally than it does locally, Hammond said.

He attributed the sociology department's continued residence in an unpleasant and unsuitable building to three factors: underfunding, which has inhibited new construction and improvements, the relatively low standing of sociology as a discipline in universities of the British tradition and the discomfort experienced by more conservative colleagues when faced with a department whose members tend to be "liberal to radical" in politics.

"We can't help feeling that were we a
See BORDEN : Page 4

Overhead income split should be reversed: Research Board

Proposals directing more overhead income to departments generating contract research were unanimously endorsed by the Research Board at its March 4 meeting.

Professor Mike Charles, vice-dean of engineering and chair of the sub-group which drafted the proposals, told the board that the recommended changes would "send an important signal back to

researchers that contract research is encouraged."

The proposals call for 40 percent of overhead income on a contract to be allocated to central accounts and 60 percent to the division or department whose research generated the income. In current practice, the central administration retains 60 percent of the overhead income while departments and divisions receive 40 percent.

The reason given by the sub-group for the proposed change is that the majority of overhead expenses on research contracts are incurred at the level of departments and divisions.

Of the 40 percent allocated to central accounts, five percent should be directed to the Committee on Accommodations & Facilities for spending on research-related facilities, the board has recommended.

The board further suggested that divisions could retain up to 10 percent of the 60 percent allocated to divisions and departments. Departmental chairs should use the rest of the income, the board said, to assist principal investigators engaged in contract research and to encourage early feasibility studies on new projects that might attract support by grant or contract.

Board members considered whether

more specific guidelines should be given to department chairs on the spending of their share of the overhead income. "The main problem is what happens to the money once it hits the department," said botany professor Michele Heath.

Professor Philip Kronberg of astronomy suggested that a "post facto" reporting by chairs on the spending of the money would be preferable to more explicit guidelines.

Professor Jim Guillet of chemistry asked whether overhead income could pay for such expenses as the secretarial work involved in the completion of extensive reports required of principal investigators in contract research.

David Nowlan, vice-president (research), said he thought it would be "heading in the wrong direction" to advise chairs to use overhead income to pay such expenses. They should be identified as direct costs and included in contracts whenever possible, he said.

Nowlan emphasized that his success in persuading the administration to accept the board's proposals would depend on the perceived ability of the departments to plan for the use of their income. He said the designation of funds for research support in the University's budget guidelines for 1987-88 encourages such planning.

Ministers of finance, forestry to visit

Minister of Finance Michael Wilson and Gerald Merrithew, minister of state, forestry and mines, will be on campus for separate visits during the next two weeks.

Wilson is to meet with staff and students of the executive MBA program in management studies and participate in a second-year class on strategic planning the morning of March 20. All U of T staff and students are invited to attend a discussion with the finance minister to be held at 11 a.m. in the George Ignatieff Theatre, Trinity College, Devonshire Place. The discussion

will be moderated by Bennett Kovrig, chairman of the political science department. Admission is free, but tickets are required. They will be available on a first-come, first-served basis in the lobby of Simcoe Hall from 10 a.m. to noon, March 16. Following the discussion, Wilson will have a luncheon meeting with President George Connell and several senior administrators.

Merrithew will be at the Faculty of Forestry March 10 to present the 1986-87 Canadian Forestry Service post-graduate scholarships and the faculty's CFS block grant.

Supernova

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Galileo and Kepler in 1604; from a scientific point of view, it is by far the most important ever.

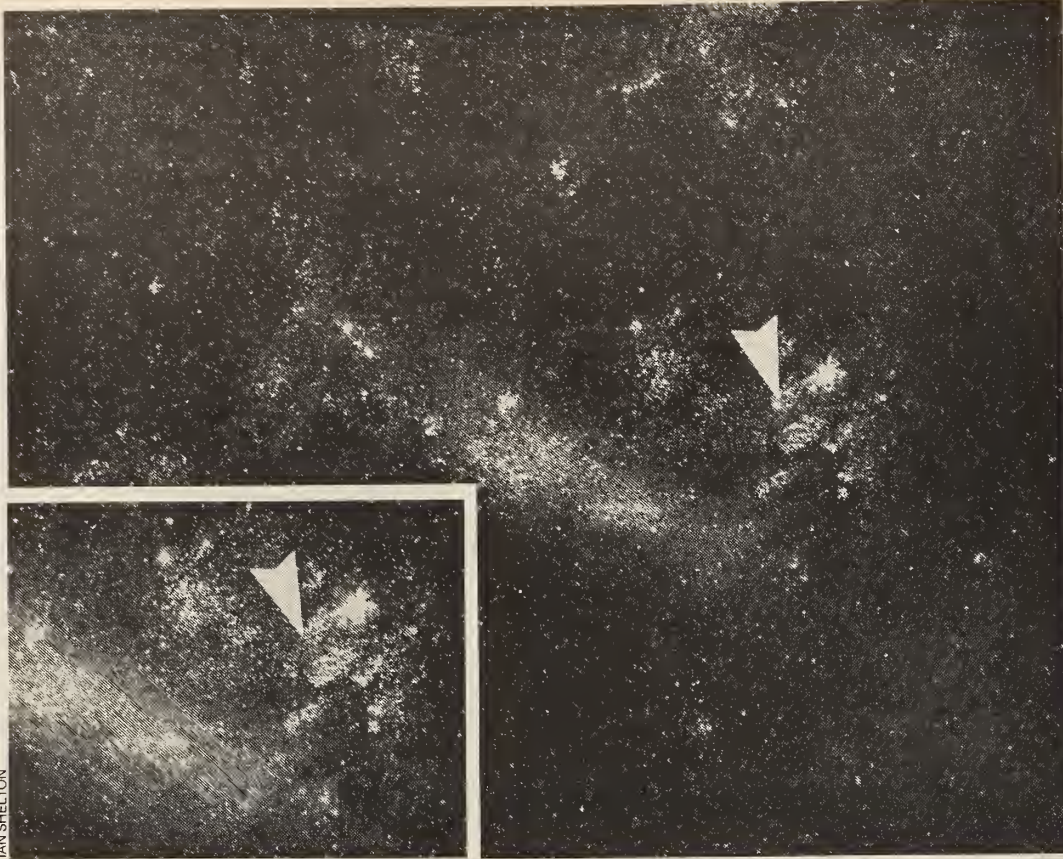
"You can't imagine how exciting this is," said astronomy professor Robert Garrison, director of the Chile observatory, at a Feb. 26 news conference in Toronto. "Supernova Shelton is ideally placed. If I were to set up an experiment to test theories of stellar evolution, I would have put it exactly there, in the Large Magellanic Cloud." The LMC is a satellite galaxy about 163,000 light years from our own. In comparison, a 1972 supernova, the fourth brightest ever recorded, was found in a galaxy 13 million light years away.

Garrison said there are plans to celebrate the discovery when Shelton returns from Chile, probably in April. For the moment, however, the resident observer, like his colleagues around the world, is anxious to continue work. "He wants the data, not the glory," Garrison said. "That's the kind of person he is." There are also tentative plans to host an international symposium on Supernova Shelton in 1988, according to supernova expert Professor Marshall McCall, also of the Department of Astronomy.

The University owes the discovery to foresight, planning, skill and knowledge, as well as good luck, Garrison said. The Chilean observatory was established in 1971 and has continued to be operated despite a reduction in funding, in part because an endowment pays the travel expenses to the isolated site. Shelton, originally of Winnipeg, is a trained observer, with a bachelor's degree in physics from the University of Manitoba. He has spent about five years at Las Campanas since he was first hired in 1971. Had he not been photographing the Large Magellanic Cloud on the evening of Feb. 23, several hours before sunset in Australia, the discovery would have been made by amateur astronomers there.

"There's certainly serendipity connected with it, but there's also the fact that we had the foresight to put a telescope down there and the guts to keep it going, in spite of cutbacks," Garrison said.

Shelton discovered the supernova while photographing the Magellanic Cloud in anticipation of the arrival of Comet Wilson. He made the first picture on a 10-inch telescope housed in a hut near the dome containing the University's 24-inch instrument. He saw



Before (inset) and after: arrows mark the spot where, on Feb. 23, Ian Shelton, the University's resident observer at the Las Campanas observatory in Chile, discovered the supernova that now bears his name. The dying star is found in the Large Magellanic Cloud, a galaxy about 150,000 light years from earth.

the supernova first on a photographic plate. Two hours later, it was visible to the naked eye. He took the first readings using the larger telescope.

Early Tuesday morning, after a night of work, Shelton reported the supernova to the International Astronomical Union in Cambridge, Mass., the agency that verifies, catalogues and names discoveries. Meanwhile, news spread rapidly and in less than a day the event was a world-wide preoccupation, involving all the major observatories in the southern hemisphere, at least one orbiting satellite telescope and the neutrino detection facility in France.

In the last two weeks the supernova has become astronomy's most engaging and controversial topic. The new data will fundamentally alter our view of the size of the universe, the birth and death of stars, the origin of neutron stars (pulsars), the formation of heavy elements, such as gold and silver, and lighter ones, such as calcium and magnesium, and perhaps the mass of elementary particles, such as neutrinos. McCall described several of the supernova's unusual features:

- Researchers believed its precursor was a large, hot star, called a blue giant, about 400 times the size of the sun. A star of this type was on record at the

spot where the explosion occurred, the first time an apparent precursor was known. But data from the orbiting International Ultraviolet Explorer satellite indicates both the continued existence of the blue giant and the presence of a red giant, and suggests that a third star may have been the precursor.

- The explosion appears to have peaked more quickly than expected, although the levelling off of its brightness may yet prove deceptive. McCall cited a 1961 supernova that appeared to stop growing, then unexpectedly rose again. The rate of expansion of the dying star will tell us a great deal about the processes involved in its demise.

- A facility in France recorded five neutrino pulses over seven seconds the day before Shelton's discovery. The pulses are almost certainly related to the collapse of the precursor star, McCall said. Neutrinos are sub-atomic particles of so little mass and such high energy they are able to pass through the earth. Although the findings have yet to be widely discussed, the French scientists says they can use the data to measure the mass of the neutrino more accurately than before.

- The neutrino pulses suggest the collapsed star, still hidden by the energy of the explosion, has become a pulsar, or neutron star — an extremely dense and stable object with a diameter of 20 to 40 kilometres. There is a pulsar at the centre of the Crab Nebula, the remnant of a supernova, McCall said. If another is found when the clouds around Supernova Shelton thin enough to permit observation, the origin of pulsars and the fate of massive stars will be clear. Another theory suggests they become black holes, objects so dense they do not emit light. Neutron stars emit light only at their poles: as they rotate observers on earth can sometimes detect the rapid pulses.

- The event will help resolve a controversy regarding the intergalactic distance scale. By comparing optical and radio data, the distance to the Large Magellanic Cloud can be more accurately measured, providing a benchmark for measurement of the universe. Supernova Shelton may replace or augment distance data gleaned from Cepheid variables — a variety of pulsating star discovered 200 years ago.

- Supernovae are believed to be the creators of gold, silver and the other elements heavier than iron. The neutrons they release interact with protons and electrons to produce the heavier materials. Spectroscopic

readings will reveal which elements have been formed.

- The light from the supernova must pass through clouds of gas between the Large Magellanic Cloud and the Milky Way. Light and diffusion measurements may tell us a great deal about the interstellar and galactic medium and its chemical composition and density, among other things.

The Las Campanas telescope is located about 500 kilometres south of Santiago, 2,200 metres above sea level. The \$500,000 facility began operations in 1971 and costs about \$100,000 a year to operate. The dome containing the telescope is on land leased from the Carnegie Institution, which owns the mountain. In 1985 the astronomy department launched a campaign to raise \$5 million to buy a Canadian-designed two-metre telescope for Las Campanas and expand

facilities at the David Dunlap Observatory in Richmond Hill.

Supernova Shelton is a type II event, distinguished from type I by its slower rate of decay. Type I supernovae are thought to occur when a massive star in a pair draws matter from its neighbour and collapses. Type II are thought to be single stars that collapse when their fuel is spent.

The supernova will be visible to the naked eye, in the southern hemisphere only, for a month or two. At its peak it will be about equal in luminosity to the galaxy in which it is found. The debris from the explosion will be visible for hundreds or perhaps thousands of years.

Ivey honoured for teaching

Professor Donald Ivey has won the Robert A. Millikan award of the American Association of Physics Teachers for his creative contribution to the teaching of physics. Ivey, the first Canadian to receive the award, will be presented with a medal at the association's summer meeting in June at Montana State University. He will give a lecture entitled: "Educational Television — an Oxymoron?"

Ivey, who came to U of T in 1949, was principal of New College from 1963 to 1974 and vice-president (institutional relations) from 1980 to 1984.

Borden

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powerful department within the University, such as physics or English, this situation would have been remedied."

Faculty escape

Faculty seek cross-appointments in centres and institutes to escape the Borden Building, said Professor Jeffrey Reitz, chair from 1980 to 1985. "There is a pull factor, but there's definitely a push factor as well. People use their interests to work their way into centres and institutes. The Borden Building is a disaster."

Sociology departments in new universities, such as York, Carleton and Waterloo, do much better than those at older institutions, such as U of T, Queen's and McMaster, he said. "New universities start fresh and all departments have an equal opportunity to compete for influence, but in older universities, where sociology is a late comer, it must compete within an already established hierarchy of influence. I am convinced from five years

as chair that if you want to get along on this campus you do not align yourself with the Department of Sociology as a unit."

The first American departments of sociology were founded at the turn of the century. Toronto's came into existence in 1964, when it separated from the Department of Political Economy and moved into the Borden Building, considered at that time to be temporary accommodation.

Tentative plans for a social sciences centre were initiated in 1979 and a users' committee for a new building was struck in September 1984. Reitz represented sociology on the committee. However, the project lost momentum and the users' committee never met, Reitz said.

The centre was intended to house the Faculty of Management Studies, the Departments of Sociology, Economics and Political Science, the Institute for Policy Analysis and the Canadian Institute of International Affairs. The building was to be constructed on the site of the parking lot south of Woodsworth College with funds raised from the sale of the management studies building and the commercial development of the graduate residence at Bloor and St. George Streets.

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Polanyi guest of honour at Ottawa dinner hosted by PM

A dinner hosted by Prime Minister Brian Mulroney was held in Ottawa March 5 to honour Professor John Polanyi, winner of the 1986 Nobel Prize for chemistry. Proceeds from the event are to be used to produce three short video tapes on Polanyi's work for educational television and secondary schools.

Polanyi delivered brief remarks concerning the nature of scientific discovery in Canada and the peace issue.

The dinner was attended by Canada's only other living Nobel laureate, chemist Gerhart Herzberg of the National Research Council, awarded the prize in 1971, and by diplomat Geoffrey Pearson, son of the late Prime Minister Lester B. Pearson, winner of the Nobel Peace Prize in 1957.

The University was represented by Joan Randall, vice-chairman of Governing Council, Vice-Presidents David Cameron (institutional relations) and David Nowlan (research), Principal Peter Richardson of University College, Senator Lorna Marsden of the Department of Sociology, Marvi Ricker, director of public and community relations, and former provost Frank Iacobucci. Chief Justice Brian Dickson of the Supreme Court of Canada was among the guests, as were several other Supreme Court judges and a number of university presidents.

About 300 people attended the dinner, sponsored by the National Museum of Science & Technology, the Ministry of State for Science & Technology, the National Research Council and the Natural Sciences & Engineering Research Council.

Since winning the prize Polanyi has been in great demand as a lecturer and speaker on science and other topics. On Feb. 27 he spoke to the premier's council on science and technology, a provincial advisory body; the week before, he attended the first meeting of the national advisory board on science and technology, chaired by the prime minister.

On May 22 Polanyi will receive an honorary degree from the University of Lethbridge, the first awarded to him since the prize. On May 29 he will be

honoured in the same way by the University of Victoria.

Among his other planned engagements: on March 12, in Vancouver, he will attend a federal-provincial science ministers conference and will speak at a dinner for 500 hosted by the British Columbia premier; on March 16, in New York, he will deliver a scientific lecture to a meeting of the American Physical Society; on March 27, again in British Columbia, he will speak on science to a lay audience at the Vancouver Institute.

U of T, OCA collaborate on creative design research project

The Department of Mechanical Engineering has opened a creative design research unit aimed at stimulating a creative approach to the design of vehicles, products and systems to make them more attractive and more functional.

Director of the unit is Claude Gidman, who teaches at both U of T and the Ontario College of Art. He intends to bring students and faculty members from both institutions into collaborative projects and eventually to seek commissions and assistance from industry and government.

Mechanical engineering has been running a program on an experimental basis for the past three years of collaborative projects with OCA directed by Gidman. This year the students are working on designs for a truck cab arrangement for the year 2000, with particular attention to the driver's needs for comfort, vision, convenience and safety.

The creative design research unit was established with seed money from a mechanical engineering alumnus, Wallace Chalmers, and his wife, Clarice. In addition to a commitment of \$200,000 over three years, Mrs. Chalmers has donated Wallace

Chalmers design scholarship awards worth up to \$20,000 annually. Chalmers, now retired, is the founder of Chalmers International, which makes truck suspensions.

Faster recruiting for Sec I

As a pilot project, the Human Resources Department will create a pool of applicants within the University for Secretary I positions to streamline the recruiting procedure and identify junior clerks and clerk-typists who seek advancement.

Counselling will be provided for employees who want to acquire the skills and experience necessary for advancement to the Secretary I level.

A general competition is being held for Secretary I positions that may become available within the University over the next six months. Applicants who meet the minimum qualifications will be interviewed by a personnel officer and screened for a candidate pool. The Human Resources Department will then refer suitable candidates to departments when vacancies occur.

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Brazilian ball

The University's national scholarship program is the beneficiary of \$175,000 raised by the 1987 Brazilian Carnival Ball held at the Inn on the Park Feb. 28. The spectacular event, with a "Flying down to Rio" theme, was the largest and most financially successful in the 21-year history of the ball, which each year benefits a different organization. President George Connell and his wife Sheila attended the ball as honorary patrons. The president expressed the appreciation of the University community to ball founder Anna Maria de Souza and to the many sponsors, patrons, benefactors and guests. Flown in from New York for the evening were the cast of the Brazilian Follies (left), on tour from Rio de Janeiro. Co-sponsors of this year's ball were American Express (Canada) Inc. and Nabisco Brands Ltd.



STEVE BEHAL



DIRECTOR

TORONTO SCHOOL OF THEOLOGY

The Toronto School of Theology seeks a Director, for a five-year term appointment, beginning July 1, 1987. The Toronto School of Theology is a federation of seven theological colleges, affiliated with the University of Toronto, granting both basic and advanced degrees in theology and ministry.

The Director is the chief executive and administrative officer of the School, and is responsible for leadership and coordination of the cooperative and ecumenical educational endeavours of its member institutions. An understanding of the unique federation that the School represents and of its affiliation with the University of Toronto will be an asset.

The search committee hopes to recommend an appointment by mid-April. Duties taken up by July 1 would be desirable. However, the search will continue until a suitable appointment can be made.

Applications or nominations may be made before March 16, 1987. A full position description is available from:

Dr. Raymond Whitehead
Acting Director
TST
47 Queen's Park Cres. East
University of Toronto
M5S 2C3

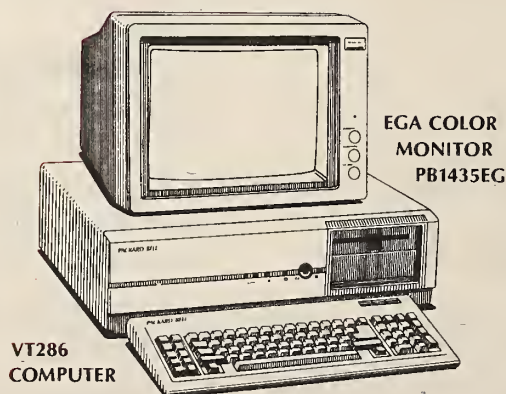
Mr. Don Cameron
Secretary to the
Search Committee
20 Upjohn Road
Don Mills, Ontario
M3B 2V9



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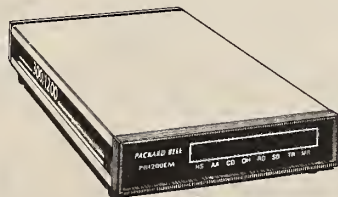
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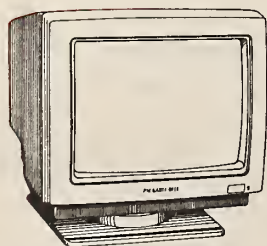


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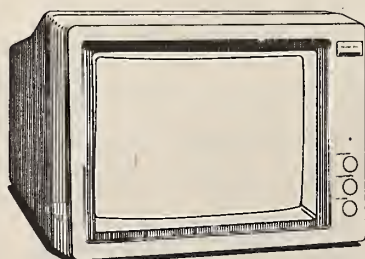
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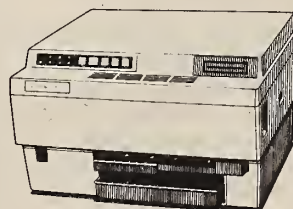
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RESEARCH NEWS

For further information and application forms for any of the following agencies, please contact ORA at 978-2163.

Easter Seal Society

Investigators submitting applications for the *April 15* deadline are advised that the society has moved. The new address is: 24 Ferrand Drive, Don Mills, M3C 3N2. The telephone number has been changed to 421-8377.

Application forms and further information on the society's programs may be obtained from ORA.

National Cancer Institute of Canada

Under the Terry Fox Marathon of Hope research program, funds are offered for project grants and expansion awards. The project grants are to assist a minimum of three investigators to interact in a number of approaches to problems related to cancer research. The expansion awards are intended to enable one or two investigators to increase the amount of time or effort directed towards a single research program.

Interested investigators are advised to read the current NCIC guidelines, available from ORA, for more detailed information, and then to contact the NCIC national office to discuss the proposed programs to ensure that an appropriate application is made.

Deadline for these two programs is *April 15*.

Ontario Mental Health Foundation

The foundation will hold a one-day workshop on May 11 on the preparation of research proposals. Inter-

ested investigators are asked to call the foundation at 920-7721 for registration information. ORA and the research office of the Faculty of Medicine have a small number of agendas and registration forms.

Ontario Ministry of Health

The ministry will support studies in the following areas: health promotion; health care for the elderly; public and community health, which includes studies of the epidemiology, diagnosis and treatment of AIDS; technology; utilization/health services patterns; women's health.

Ministry deadlines are *April 1* and *November 1*. In addition, feasibility, formulation, and conference and workshop applications may be made at any time. Guidelines and application forms are available from ORA.

Upcoming Deadline Dates

American Foundation for AIDS Research — letter of intent: *March 17*.

Atkinson Charitable Foundation — investigators in the Faculty of Medicine, deadline at the faculty research office, *March 16*; investigators outside the Faculty of Medicine, deadline at ORA, *April 20*.

Max Bell Foundation — research projects: *any time*.

Canadian National Institute for the Blind — Ross C. Purse fellowships: *April 1*.

Laidlaw Foundation — scholar program: *May 31*.

Leukemia Society of America — research grants: *April 1*.

Louis & Artur Lucian Award — visiting professorship (nominations): *May 1*. (Please note **change**.)

Medical Research Council — university-industry programs: *any time*; studentships (renewals), group (new and renewal) letter of intent, development (renewal of salary only): *April 1*.

National Cancer Institute of Canada — Terry Fox program — project grants, expansion awards: *April 15*.

National Institutes of Health (US) — international research fellowships (administered by MRC): *April 1*.

National Retinitis Pigmentosa Foundation (Canada) — research grants: *March 15*.

Natural Sciences & Engineering Research Council — undergraduate research award applications due at ORA *March 13*.

Ontario Ministry of Health — research projects: *April 1*.

Parkinson Foundation of Canada — research grants: *April 15*.

Physicians' Services Inc. Foundation — research grants: *March 23*.

G. Allan Roeher Institute — bursaries: *March 30*; research projects: *April 30*.

Social Sciences & Humanities Research Council, Research Communications Division — aid to occasional scholarly conferences in Canada (July-Oct.): *March 30*;

Strategic Grants Division — Canadian studies (research tools), education and work in a changing society (seed

money, research workshops, research grants), family and socialization of children (seed money, research workshops, research grants), human context of science and technology (seed money, research workshops), managing the organization in Canada (seed money, research workshops, research grants, research initiatives), population aging (research workshops, research grants, reorienta-

tion grants, institutional grants, research initiatives, research tools and facilities), women and work (seed money, research workshops, research grants): *April 1*. (Please note **new** application forms and guidebooks for all SSHRC strategic grants programs are now available at ORA.)

Tsumura Juntendo, Inc. — research grants: *April 1*. (Please note **change**.)

U of T, Connaught senior fellowships: *May 15*. (Please note **change**.)

U of T, Humanities & Social Sciences Committee of the Research Board — grants-in-aid: *April 1*; general research grants: *April 15*.

Damon Runyon-Walter Winchell Cancer Fund — fellowships: *March 15*.

IN MEMORIAM

Dr. Charles Peter Vernon, associate professor of obstetrics and gynaecology, Faculty of Medicine, Jan. 16.

Born in 1929, he attended the University of Toronto Schools and went on to study medicine at the University of Toronto, where he was a member of the Toronto Blues hockey team. After postgraduate study in the US and abroad he joined the staff of the Toronto General

Hospital in 1961.

Dr. Vernon specialized in the treatment of gynaecological cancer and was a consultant to the Princess Margaret Hospital. He was a member of the Society of Pelvic Surgeons, of which only five members have been Canadians, and was one of the first non-Europeans to be invited to join the European Society of Gynecological Oncology. In

1982 he served as president of the Society of Gynecologists of Canada.

As well as training gynaecological surgeons in Toronto he lectured at the last two meetings of the European society and he was invited to lecture and demonstrate his surgical techniques in Europe and in China, though his illness prevented him from doing so.

Harry Oke Barrett, former dean, Faculty of Education, Feb. 7.

Born in 1908, Professor Barrett graduated from the University of Toronto in 1931 with a BA and began teaching at St. Paul's School for Boys. He completed a BPaed in 1938 and a DPaed in 1948.

From 1939 to 1942 he taught art at Eastern High School of Commerce. He then served overseas with the Canadian Army. He returned to Eastern, where he eventually became head of

the guidance department, and in 1959 went to North Toronto Collegiate Institute as head of guidance.

In 1962 he became chairman of the Department of Educational Psychology at the Ontario College of Education, which became the U of T Faculty of Education. He was made assistant dean in 1966 and acting dean in 1973. In 1974 he served as dean. He retired in 1976.

Professor Barrett, an active member of teachers' associations, served on the executive of the Toronto and

District Business Education Association, the Toronto district of the Ontario Secondary School Teachers' Federation, the Ontario Secondary School Teachers' Federation, the Ontario Teachers' Federation and the Ontario Educational Research Council. For two years he was director of the Canadian Teachers Federation.

His publications include a number of articles on art, guidance and classroom research.

Dr. Frederick Burns Roth, former associate director, School of Hygiene, Feb. 9.

After graduating in medicine from the University of Western Ontario in 1937, Dr. Roth set up a practice in Whitehorse, the Yukon, and was instrumental in the building of the first hospital there.

After 12 years he left general practice and came to the School of Hygiene at the University of Toronto to study hospital administration. He spent three years in Winnipeg as administrative assistant at the Winnipeg General Hospital and in 1952 he joined the public health department of the government of Saskatchewan and

was heavily involved in the implementation of that province's plan for a system of regionalized health services. As deputy minister he helped plan the system of universal health care adopted by the Saskatchewan government.

In 1962 he returned to Toronto to head the U of T School of Hygiene program in hospital administration. Five years later, when hospital administration and public health were merged into a new Department of Health Administration, he became chairman. He was associate director of the School of Hygiene from 1973 to 1975, when the School of Hygiene was merged into the Faculty of Medicine and the

new Division of Community Health was formed. He retired from the University in 1978.

From 1970 to 1983 he was on the board of the home care program of Metropolitan Toronto, of which he was a founding director and president in 1970. For many years he served on World Health Organization committees concerned with health care systems, and in 1981 he received an award from the Pan American Health Organization for his work in improving the practice and teaching of health care. He was an honorary fellow of the American College of Hospital Administrators.

POSITIONS ELSEWHERE

Notice of the following vacancies outside the University has been received by the Office of the President.

Association of Canadian Universities for Northern Studies

Executive Director

Commences July 1. Submit résumés or inquiries by *March 13* to: Marc-Adélaïd Tremblay, President, Association of Canadian Universities for Northern Studies, 130 Albert St., Suite 1915, Ottawa, Ont. K1P 5G4.

University of Victoria

Administrative Registrar Effective July 1. Completed applications must be received by *March 15*. Send to: Professor F. Murray Fraser, Vice-President Academic, University of Victoria, P.O. Box 1700, Victoria, B.C. V8W 2Y2.

Memorial University of Newfoundland

Director, Marine Sciences Research Laboratory

A renewable five-year term appointment to be filled by Sept. 1. Nominations or applications should be submitted before *March 31* to: Dr. D.F. Strong, Chairman, MSRL Search Committee, Department of Earth Sciences, Memorial University of Newfoundland, St. John's, Nfld. A1B 3X5.

The Mount Sinai Medical Center

President

Send responses to: Chairman, Search Committee for President, c/o Mr. Milton H. Sisselman, Vice-President, The Mount Sinai Medical Center, One Gustave L. Levy Place (Box 1251), New York, N.Y. 10029.

State University of New York at Buffalo

Vice-Provost for Undergraduate Education

Position available Aug./Sept. Nominations or applications should be submitted by *March 1* to: Donald W. Rennie, M.D., Chair, Search Committee for Vice-Provost for Undergraduate Education, SUNY at Buffalo, 521 Capen Hall, Buffalo, N.Y. 14260.

University of Wisconsin — Madison

Director of Intercollegiate Athletics

Position available July 1. Nominations or applications should be submitted by *March 23* to: Professor Maurice B. Webb, Chair, Search and Screen Committee for Athletic Director, University of Wisconsin — Madison, 157 Bascom Hall, 500 Lincoln Drive, Madison, Wis. 53706.

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Governing Council briefs

Renewal paper

President George Connell's green paper on University renewal will be released to Governing Council members, the University community and the general public March 19.

Connell told the March 6 meeting of Council he hopes to be able to discuss the paper's contents at the April 16 meeting. On the evening of its public release he will participate in a forum on renewal organized by the History Students Union.

Staff salaries

The Executive Committee has ruled against Governing Council consideration of a motion to increase administrative staff salaries by 1.5 percent, retroactive to July 1. Staff representative Michael Jackel gave notice of motion at the Council meeting, Jan. 22.

According to the rules of procedures, proposed motions must first be approved by the Executive Committee before they are considered by Council. Jackel's motion included approval of a further two percent increase on May 1, 1987. The increases are necessary, Jackel

said, to see that increases in staff salaries remain the same as those awarded to faculty.

A recent arbitration ruling awarded faculty a 6.5 percent increase; staff earlier received a three percent basic increase. Council member Mike Uzumeri said the Executive Committee believed it would be inappropriate to reconsider the staff salary award in mid-year. Adjustments should be provided for in regular discussion with the staff association leading to next year's award, he said.

Jackel said the three percent award was imposed on staff and that in the past faculty and staff received the same increase. "I resent bitterly that the motion for redress doesn't come before this council," he said.

Conflict of interest

Executive Committee member Mike Uzumeri told Council the University's solicitor has said a by-law that protects members from conflict-of-interest charges could be open to legal challenge but that there is no reason for immediate concern.

Uzumeri said that while there is no immediate cause for concern, the

conflict-of-interest question may be reconsidered at a later date, perhaps in the context of discussion of the report on attitudes to university governance by McGill professor William Stansbury expected later this month.

Section 27 includes provisions for declaration of conflict of interest and abstention by any Council member "interested in any contract or transaction being considered by Council". However, subsection "c" provides for faculty, staff and students to consider matters that concern the constituencies of which they are members without declaring a conflict.

At the Jan. 22 Council meeting, government appointee Gerald Schwartz

asked if members were in conflict when considering salary settlements of interest to them as University employees. Schwartz said a unicameral governing body created a situation in which councillors who belong to the faculty association consider their own salaries.

President George Connell said there is some concern that section 27 (c) does not afford adequate protection against conflict charges. According to the minutes of the Feb. 24 Executive Committee meeting, the president said that if the University requests amendments to the U of T Act, the government might include a new conflict-of-interest provision.

Harassment

Continued from Page 1

said the draft policy's definitions of sexual harassment and sexist language are unclear. Sexist language is only considered harassment when it is specifically directed at one or more individuals. Those accused of harassment might therefore claim they had used non-harassing sexist language and thus escape disciplinary measures.

UTSA president David Askew said few universities with sexual harassment policies have as short a time limit as that included in the University's proposed policy.

Provost Joan Foley said that in her judgement the inclusion of a four-month time limit was the only way to achieve a policy that could be accepted by the faculty association and the University in general. She said she felt the faculty association would probably resist a longer limit.

There would sometimes be ambiguity concerning the nature of harassment, the provost said.

UTFA representative Hank Rogers of the Department of Linguistics said the association agreed to a four-month time limit — twice the time it first proposed — in the interest of achieving an agreement with the other University constituencies. He said UTFA believed a four-month limit would balance the rights of the complainant and the accused. A University-wide consensus on the issue is unlikely, Rogers said.

Professor Michael Uzumeri said he did not understand why those who favoured a policy would risk delaying its implementation, perhaps by years, in order to negotiate a longer time limit with the faculty association.

However, those in favour of further negotiations said they believed that without at least a six month time limit the policy would be unworkable in any case. "From a practical standpoint, six months is the shortest time possible," said alumnus D. Miller Alloway.

City of Toronto honours


Chancellor John Black Aird and computer science professor Pat Hume, master of Massey College, are among nine Torontonians who will receive the City of Toronto's highest honour, the Award of Merit, in a ceremony at city hall at 4 p.m. today. The awards are given annually to Torontonians who have attained distinction and honour in various fields.

Hume, former chairman of the Department of Computer Science and a leading international authority on computers and their applications, became master of Massey College following Robertson Davies' retirement in 1981. Along with Professor Donald Ivey of the physics department, Hume gained recognition in the 50s and 60s for a


series of television programs and films on physics that they devised and presented.

Aird, former lieutenant-governor of Ontario, became U of T chancellor in the fall. He is honorary chairman and president of numerous charitable organizations, among them the United Way, Variety Village and the Special Olympics.

Margaret MacAulay, an editor in the Department of Communications, will be recognized for service on the board of management of the Alumnae Theatre. A former president of the University Alumnae Dramatic Club, tenants of the city-owned building, she is one of 10 to receive medals for service to the community.

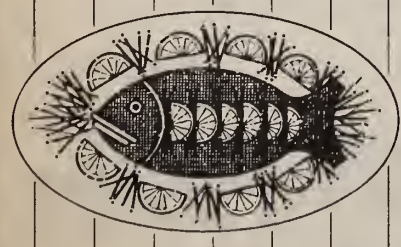
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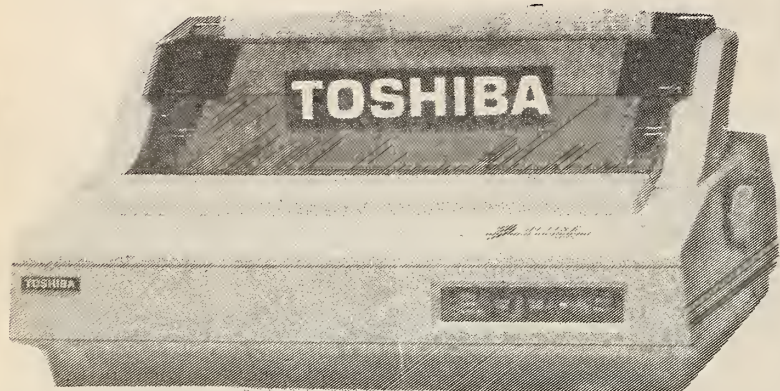
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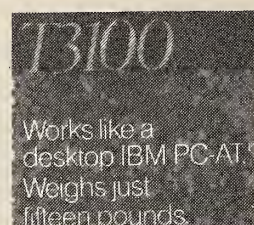
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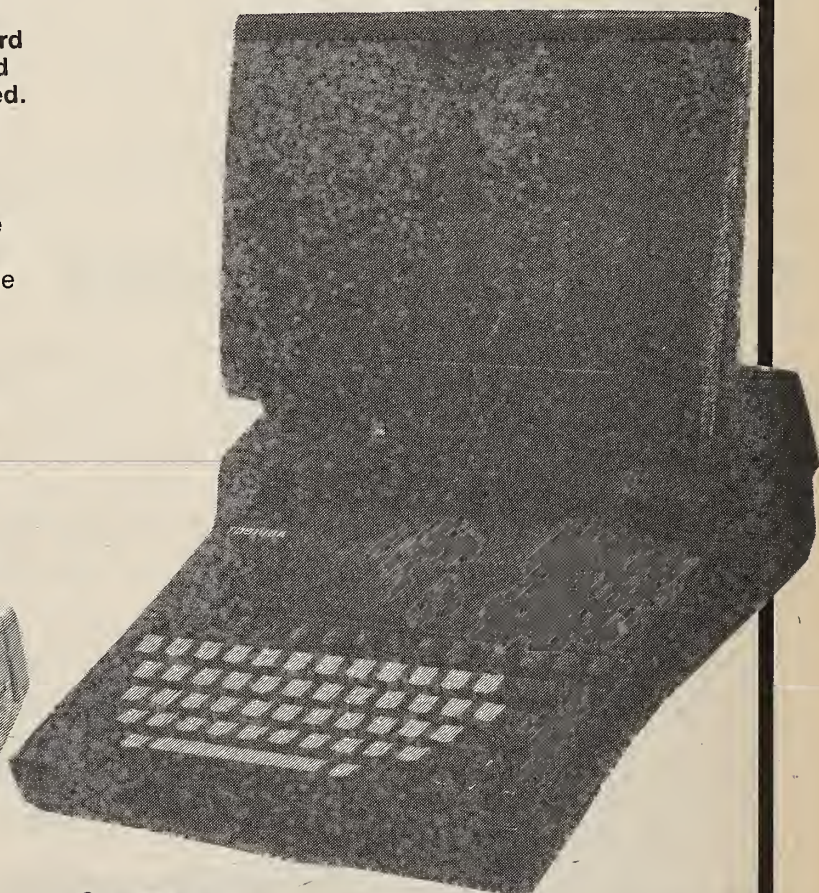


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Keyboard	81 keys
Standard Interfaces	RGB colour monitor, parallel printer, RS-232C serial, external diskette drive, full IBM-compatible I/O bus for expansion chassis
Options	Internal Hayes®-compatible 300/1200 bps modem Expansion chassis with five IBM-compatible slots External 15-key numeric keypad Internal 1-Megabyte memory expansion board PC Floppy Link External 5.25-inch, 360-Kbyte diskette drive
Software	MS-DOS® 2.11 operating system GW-BASIC® interpreter Diagnostics
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Disk Drives	Two 3.5" 720KB capacity floppy disk drives	Weight	Less than 10 lbs (4.5kg)
Display	Liquid crystal display 80 characters x 25 lines 640 x 200 pixels 9.1 x 7.4 inches Orientation adjustable from 0° to 180°	Power Source	Internal NiCad rechargeable battery AC adapter/charger
Keyboard	81 keys, IBM-PC compatible	Options	Internal 300/1200 bps Hayes-compatible modem
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Memorandum clarifies status of grant-supported staff

A memorandum from the administration has cleared up some of the concerns of grant-supported staff, but other related issues remain unresolved, says Mike Roussakis, secretary-treasurer of the staff association.

The Feb. 4 memorandum from Carole Farr, manager of human resource services, points out that grant-supported

staff are considered hired on a continuing basis unless, at the time of their appointment, they receive a letter stating explicitly that the term of employment is limited. The memorandum also explains that, according to a "long-standing principle", grant-supported staff who are employed on a continuing basis do not lose that status

if their jobs disappear for financial reasons and they take positions limited by contract to a certain length of time.

In three instances since 1984, continuing grant-paid staff were wrongly re-assigned as term but their classification is being corrected, the memorandum states.

Roussakis, a grant-supported staff member in the Faculty of Medicine, says grant-supported staff welcome the clarification of their status by the memorandum.

But he points out that although the memorandum acknowledges the increasing number of staff hirings on term contracts — 58 percent of all new hires in the first 10 months of 1986 compared with 48 percent in 1985 — it fails to explain why this is occurring.

Nor does the memorandum resolve the problem confronting staff members wishing to make a lateral transfer, says Roussakis. Because many positions are now term, any staff member who accepts such a position willingly for the sake of a career change loses the benefits of continuing status, he says.

That problem as well as several others will be addressed by a working group chaired by Farr and Carole Gillin, director of the Office of Research Administration. Among the issues to be considered are:

- inequalities in salaries paid to grant-supported staff and budget-supported staff of the same rank
- the difficulty of providing continued employment to grant-supported staff when grant funding is unstable
- the lack of clear guidelines on when term employment in grant-supported areas is appropriate
- the question of whether successive renewals of term employment may be considered continuing employment.

At the June 3 meeting of the Business Affairs Committee, Vice-President (Business Affairs) Alec Pathy is expected to present revised employment policies for administrative staff. Meanwhile, Michael Jackel, staff representative on the committee, has given notice of a motion that grant-supported staff should normally be hired on continuing appointments.

If the revised policies presented by Pathy don't deal with that point, Jackel says, he will ask the committee to consider his motion.

Teacher education proposals 'challenging', but costly: dean

An OISE discussion paper that proposes major reforms in teacher education in Ontario is valuable because it supports greater spending on teacher education programs that would be longer and more professional, says acting dean of education John MacDonald. "It's hard to argue with something that would improve the career development of teachers," he says.

But its recommendations, although "challenging", raise "millions of questions", he says, and implementing them would be difficult and very expensive.

The report's major recommendation would force graduates of education faculties to complete a four-year internship in order to earn a permanent teaching certificate.

At the same time, admission to an extended teacher training program would be restricted to graduates of four-year honours programs. Students are now admitted into the one-year bachelor of education program after three years of undergraduate study. Graduates are certified virtually automatically and go directly into full-time teaching jobs.

The 96-page report was prepared by OISE's Michael Fullan and F. Michael Connelly for a provincial committee looking into the education of teachers in the province. It concluded that although there is no crisis in the school system, "major reforms are necessary if Ontario is to achieve any degree of excellence in teacher education."

The report argued that "school-aged students are being short-changed" because novice teachers "are simply not

ready to handle full teaching loads". Some form of internship is "essential", it said.

In its first two years, the proposed internship would combine practice teaching with continued studies under the supervision of a "mentor" teacher. Only after a second two-year period, a teaching apprenticeship with new teachers working beside veteran teachers for part of the day, would permanent certification be granted — and then, only after a positive evaluation by a "consortium" representing universities, school boards, government and the teaching profession.

The report complained that many education professors "distance themselves from the teacher education component" of their faculties and said that this "faculty split" was not in the best interests of teacher education.

It also called for more "research and social commentary" at both the undergraduate and graduate levels. These should pervade education faculties just "as they pervade the university as a whole," it said.

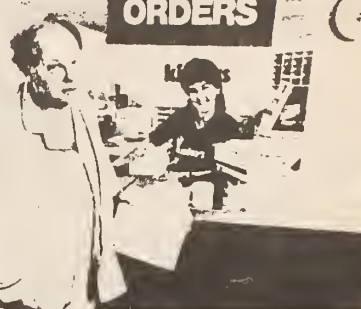
Other recommendations included:

- a "review and overhaul" of teacher education curricula
- the creation of a new journal of innovative teacher education practices
- the establishment of formal ranks for teachers, similar to those awarded to university professors.

MacDonald said his faculty would be preparing a formal response to the discussion paper over the next few weeks. A final report from the committee studying teacher education is expected in September.

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Women In Toronto

Third Annual
WOMEN'S CENTENARY LECTURE

The Women's Centenary Lecture Committee for the University of Toronto takes great pleasure in announcing a lecture by

VIVIAN GORNICK
Teacher and Journalist

WOMEN IN SCIENCE: PORTRAITS FROM A WORLD IN TRANSITION

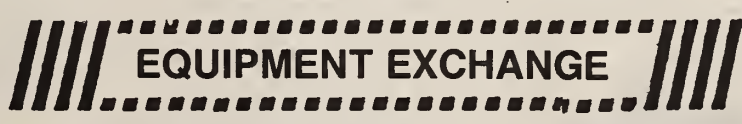
Thursday, March 12, 1987, 4:00 pm
Wetmore Hall, New College
21 Classic Avenue

Admission is Free
No Tickets Required
Information 978-4352

Search committee, FEUT dean

President George Connell has appointed a search committee to recommend a dean of the Faculty of Education as a successor to Professor W. John MacDonald, whose term of office ends June 30. Members are: Professors Claude C. Brodeur, Lawrence J. La Fave, Donald F. Galbraith, H. Donald Gutteridge and Natalie Kuzmich, FEUT; William Barrett, president, FEUT Student Union; Rosy Nadalin and Laurie Thompson, FEUT Student Assembly representatives; Dean Ann H. Schabas, Faculty of Library & Information Science; Duncan Green, assistant deputy minister, Ministry of Education; Michael Fullan, assistant director (academic), OISE; Professor Donald E. Moggridge, associate dean, SGS; Vice-Provost James F. Keffer (*chairman*); and Mark D. Johnson (*secretary*).

The committee will welcome nominations and comments. These may be submitted to the chairman, room 222, Simcoe Hall, by March 23.



EQUIPMENT EXCHANGE

The "Equipment Exchange" is a Purchasing service to facilitate the recycling of surplus equipment within the University. For further information, contact Purchasing at 978-5173.

Equipment Available

Description	Qty	Model	Age	Orig.Cost	Fair Mkt Value	Contact-Phone
Half track 1/2" audio tape recorders	2	Philips PRO-12-	15 yrs.	-	Best Offer	MSB Room 2358
Full track 1/4" audio tape recorder	1	Ditto	15 yrs.	-	Best Offer	MSB Room 2358
4 channel audio mixer	1	MP-4 Philips	15 yrs.	-	Best Offer	MSB Room 2358
Audio Sync Cassette Tape Recorder	1	1525 cassette Audiobonics	10 yrs.	-	Best Offer	MSB Room 2358
B&W Videocin camera with cell (w/o lens)	1	Philips LDH 160	15 yrs.	-	Best Offer	MSB Room 2358
Computer Terminal	2	4025 Tektronix	6 yrs.	7,000.	1,500.	Physics Room 602
Mouse 2e	1	MO100 Apple 2e	1 yr.	153.	99.	Zoology Room 019
Dot matrix printer	1	LX-80 Epson	1 yr.	416.	268.	Zoology Room 019
Grappler card	1	-	1 yr.	109.	71.	Zoology Room 019
Word processing software	1	Wordstar Professional (CPM)	4 mths.	462.	298.	Zoology Room 019
(CPM 5.1) card Z80	1	CPM	4 mths.	215.	138.	Zoology Room 019
CPU - 128K	1	Apple 2e 905816	1 yr.	795.	512.	Zoology Room 019
X-80 extended text card	1	Apple 2e	1 yr.	61.	40.	Zoology Room 019
EX-80 unidisk drives	2	Apple 2e KID7197		191.	123.	Zoology Room 019
		K323216		305.	197.	Zoology Room 019
14" composite colour monitor	1	Y059815 Apple 2e	1 yr.	315.	203.	Zoology Room 019

PURCHASING SYSTEM UPDATE
20% of requisitions are now processed electronically to Purchasing. Departments/Divisions are being brought on-line at the rate of 2/week.

OSAP increase aimed at low-income families, single parents

Students from low-income families and single parents will benefit from an increase in student aid announced by colleges and universities minister Gregory Sorbara Feb. 26. The provincial government will spend \$171 million on the Ontario Student Assistance Plan in 1987-88, a 17 percent increase over this year's \$145.8 million OSAP budget.

"Much of the new funding is aimed at increasing the amount directed to provincial grants," Sorbara said. He said the new money would also be spent to:

- reduce the financial contributions from parents of students from low-income and farm families
- provide child-care support to students who are single parents
- increase personal living allowances for

students studying away from home and grant ceilings for single, independent students

- introduce an interest relief program for graduating students who are unemployed or in low-paying jobs
- extend loan assistance to students attending post-secondary institutions elsewhere in Canada and grant assistance to students attending degree-granting religious schools, such as the Ontario Bible College, and approved creative arts schools, such as the National Theatre School in Montreal.

About 35 percent of all full-time college and university students in Ontario, some 110,000, receive financial assistance through OSAP.

PERSONNEL NEWS

Seminars and Courses
The following staff training and development programs are especially designed to meet the needs of the University of Toronto staff. For more information please call Elaine Preston at 978-6496.

Hiring Decision (one day)
Supervisors and managers who are responsible for hiring will find practical guidelines to help them successfully match candidates with the job and work environment. Friday, March 13.

Organizing Events on Campus (half day)
To provide guidance in planning and coordinating lectures, symposia, exhibits and open houses. Monday, March 23.

Managing Work Performance Problems (one day)
To assist managers and supervisors in the supervision of staff members who are having problems performing on the job. Wednesday, April 1.

The Troubled Employee (half day)
To assist managers to understand how to handle an employee who is having difficulties at work as a result of personal problems. Friday, April 3.

Career Development Opportunity
General Competition for Secretary I
The Human Resources Department is initiating a pilot project which will alter the recruiting procedure for Secretary I vacancies over the next six months.

Internal staff who possess the minimum qualifications listed below and are interested in advancing their career into the secretarial stream are asked to submit an up-to-date résumé with a covering letter expressing their interest in this competition to the Human Resources Department.

Applicants will be interviewed and screened for a Secretary I candidate pool. Career counselling information will also be provided during the interview. Pre-screened, qualified candidates from the pool will then be referred to departments when vacancies for Secretary I positions occur.

Minimum qualifications:

- high school graduation, with business or commercial school training
- at least two years' satisfactory related work experience
- typing 55 w.p.m.; dictaphone and word processing skills preferred
- good knowledge of office procedures; accuracy.

Please note: Some positions may require additional skills specific to those positions.

Applicants will be required to take a typing test. Further information on specific positions will continue to be available on Promotional Opportunity notices posted in departments and on the posting board in the Human Resources Department, 215 Huron St., 8th floor, but applicants will be directed to apply through the general competition.

U of T Secretarial & Word Processing Service
Temporary placement service requires conscientious, reliable individuals immediately for the following:

- Clerks
- Clerk Typists
- Secretaries
- Word Processors

Please call Anne O'Neill at 978-2007, suite 300, 203 College St.

Job Openings
Below is a partial list of job openings at the University. The complete list is on staff bulletin boards. To apply for a position, submit a written application to the Human Resources Department.

(1) Sylvia Holland; (2) Steve Dyce; (3) Varujan Gharakhanian; (4) Christine Marchese; (6) Mirella Taiariol; (7) Sandra Winter.

Accountant III
(\$23,620 — 27,790 — 31,960)
Physical Plant (1)

Administrative Assistant I
(\$20,230 — 23,800 — 27,370)
Gerontology (1)

Chief Radiation Protection Officer
(\$39,800 — 46,820 — 53,840)
Physical Plant (1)

Clerk III
(\$16,570 — 19,490 — 22,410)
Fees Department (3)

Clerk Typist III
(\$16,570 — 19,490 — 22,410)
Law (6)

Dean of Women
(\$35,780 — 42,090 — 48,400)
New College (3)

Engineering Liaison Coordinator
(\$29,050 — 34,180 — 39,310)
Career Centre, 18-month term position (2)

Engineering Technologist II
(\$23,620 — 27,790 — 31,960)
Physics (3)

Engineering Technologist III
(\$26,200 — 30,820 — 35,440)
Computer Systems Research Institute, one-year appointment (3)

Laboratory Technician II
(\$20,230 — 23,800 — 27,370)
Banting & Best Medical Research (1), Pathology (1)

Library Technician III
(\$9,054 — 10,650 — 12,246)
Computer Science, 60 percent full-time (3)

Research Officer I
(\$9,080 — 10,685 — 12,290)
Family & Community Medicine, 50 percent full-time (1)

Secretary I
(\$8,285 — 9,745 — 11,205)
Policy Analysis, 50 percent full-time (3)

Secretary II
(\$18,160 — 21,370 — 24,580)
Residence, Food & Beverage Services (3), Continuing Studies (3)

Secretary III
(\$20,000 — 23,000 — 27,000)
St. Michael's College (1)

Secretary IV
(\$22,340 — 26,280 — 30,220)
Hart House (3)

Senior Electrical Draftsman
(\$24,800 — 29,180 — 33,560)
Physical Plant (1)

Senior Mechanical Draftsman
(\$24,800 — 29,180 — 33,560)
Physical Plant (1)

Systems Coordinator
(Administrative Assistant I)
(\$20,230 — 23,800 — 27,370)
Central Services, Medicine (2)

Systems Software Programmer II
(\$30,560 — 35,950 — 41,340)
Computer Systems Research Institute (3)

PHD ORALS

Please contact the PhD oral examination office at 978-5258 for information regarding time and location for these listings.

Friday, March 13
Kim Marie Baines, Department of Chemistry, "Investigations of the Chemistry of Silenes: I. Formation of Linear Head-to-Head Silene Dimers. II. Novel Silene Isomerizations." Prof. A.G. Brook.

Hayden Wayne Thomas, Department of Education, "Posing a Problem for the Dialogical and Problem-Posing Approach." Prof. M. Fullan.

Thursday, March 19
William Stanley Trimble, Department of Medical Biophysics, "Expression of the *ras* Oncogene and Cellular Transformation." Prof. N. Hozumi.

Grant Edwin Weddell, Department of Computer Science, "Physical Design and Query Compilation for a Semantic Data Model (assuming memory residence)." Prof. S. Christodoulakis.

Friday, March 20
Michel Robert Desjardins, Centre for Religious Studies, "Sin in Valentinianism." Prof. H.O. Guenther.

Ramona Julia Domander, Department of Psychology, "Identification of Incomplete Line Drawings and Segment Distribution." Prof. J.M. Kennedy.

Alan Douglas White, Faculty of Management Studies, "Three Essays on the Effect of Market Imperfections on Asset Prices and Investor Behaviour." Prof. P. Halpern.

James Michael Bruce Williamson, Department of Chemistry, "Laser Induced Fluorescence Characterization of Molecular Photofragments." Prof. J.C. Polanyi.

Monday, March 23
Gregory Hugh Ross Henry, Department of Botany, "Ecology of Sedge Meadow Communities of a Polar Desert Oasis: Alexandra Fiord, Ellesmere Island." Prof. J. Svoboda.

Po-ling Josephine Smart, Department of Anthropology, "To Hawk or Not to Hawk: A Study of Street Hawkers in Hong Kong." Prof. W.P. Carstens.

Tuesday, March 24
Stephen Knapp, Department of English, "Family, Kin, Community, and Region: Faulkner and the Southern Sense of Kinship." Prof. T. Adamowski.

Wednesday, March 25
Kathryn Ann Bard, Department of Near Eastern Studies, "The Origin of the State in Predynastic Egypt." Prof. N.B. Millet.

Rudy Lin Luck, Department of Chemistry, "The Synthesis of Eta(6)-Arylphosphine Complexes of Molybdenum(0) and Their Use as Metallophosphine Ligands." Prof. R.H. Morris.

Thursday, March 26
Andrzej Kreutz, Department of Political Science, "The Vatican and the Third World: The Case of Palestinians." Prof. R. Stren.

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Noon-2:30, 5-11 p.m., Mon.-Fri. Sat. 5-11 p.m. Closed Sunday.

Events

LECTURES

The College and Mid-Victorian Toronto, 1853 — 1879.

Tuesday, March 10
University Prof. Em. J.M.S. Careless, Department of History; third of four Teetzel Lectures on University College's Social and Architectural History. 140 University College. 4.30 p.m.

Treating Severely Dysfunctional Families.

Wednesday, March 11
Prof. Fromma Walsh, University of Chicago. Auditorium, Clarke Institute of Psychiatry, 250 College St. 12 noon. (Psychiatry)

The Legislative and Political Environment of Cabinet.

Wednesday, March 11
Edward Emslie Stewart, Labatt Brewing Company of Canada; Edward Dunlop Lecture. Theatre, Royal Ontario Museum. 5 to 7 p.m. (Political Science and the Edward Dunlop Foundation)

Seven Years Digging in Iraq.

Wednesday, March 11
Michael D. Roaf, Oxford; visiting University of California at Berkeley. Auditorium, Medical Sciences Building. 8 p.m. (Society for Mesopotamian Studies)

Women in Science: Portraits from a World in Transition.

Thursday, March 12
Vivian Gornick, journalist, New York City; Women's Centenary Lecture. Wetmore Hall, New College. 4 p.m. (Womens' Studies)

UC in a Would-Be Metropolis, 1880 — 1906.

Thursday, March 12
University Prof. Em. J.M.S. Careless, Department of History; final Teetzel Lecture on University College's Social and Architectural History. 140 University College. 4.30 p.m.

Is Female to Male As Ground is to Figure? Gilman, The Yellow Wallpaper; Hawthorne, The Birthmark; Freud, Dora.

Friday, March 13
Lecture Hall, Emmanuel College. 2 p.m. (Literary Studies Union, Victoria College and Comparative Literature)

Word Formation.

Friday, March 13
Prof. Edwin Williams, University of Massachusetts, Amherst. 205 Clause T. Bissell Building. 3.30 p.m. (Linguistics)

The Polish Shtetl in Transition: 1919 — 1939.

Sunday, March 15
Prof. Samuel Kassow, Trinity College, Hartford.

Between Folk and Freedom: The Dilemma of Yiddish Modernist Poets and Painters after World War I.

Prof. Seth Wolitz, University of Texas at Austin; Schwartz lectures. 2005 Sidney Smith Hall. 2 p.m. to 5 p.m. (Jewish Studies Program)

The City Green — Old Habits and New Directions.

Sunday, March 15
Prof. Roy Merrens, York University; joint meeting with The Canadian Wildflower Society. Auditorium, Medical Sciences Building. 3 p.m. (Royal Canadian Institute)

The Great Witwatersrand Controversy, Part I: A Century-long Fight between Evidence and Prejudice.

Monday, March 16
Prof. Brian J. Skinner, Yale University; 1987 Joubin-James Distinguished Lecturer. 128 Mining Building, 170 College St. 4 p.m. (Geology)

The Coleridge Collection.

Monday, March 16
Prof. J.R. de J. Jackson, Department of English. Emmanuel Lecture Hall, Emmanuel College. 7.30 p.m. (Victoria)

Ice Pick in the Head: Lobotomy and the Abuse of Psychiatric Authority.

Monday, March 16
Prof. Harvey Simmons, York University. Academy of Medicine, 288 Bloor St. W. 8 p.m. (History of Medicine)

The Administration of the Arts: The Limits of the Market.

Tuesday, March 17
Prof. John Pick, City University, London. Council Chamber, Scarborough College. 3 to 4.30 p.m.

Renaissance Science after Erasmus.

Tuesday, March 17
Prof. Em. Stillman Drake, Institute for History & Philosophy of Science & Technology; 22nd Annual Erasmus Lecture. Alumni Hall, Victoria College. 4 p.m. (Reformation & Renaissance Studies)

The Great Witwatersrand Controversy, Part II: Current Thinking, or the Modern Revival of Old Ideas.

Wednesday, March 18
Prof. Brian J. Skinner, Yale University; 1987 Joubin-James Distinguished Lecturer. 128 Mining Building, 170 College St. 4 p.m. (Geology)

Chichen Itza and the Well of Sacrifice.

Wednesday, March 18
Clemency Chase Coggins, Peabody Museum, Mass. Lecture room, McLaughlin Planetarium. 4.30 p.m. (Archaeological Institute of America, Toronto Society)

Managing Ethical Difference: The Role of Patient and Practitioner.

Friday, March 20
Abbyann Lynch, Westminster Institute for Ethics and Human Values; annual Philippa Harris Lecture. Lecture theatre, basement, Princess Margaret Hospital. 12 noon. (Ontario Cancer Institute)

Music as an Occult Science.

Friday, March 20
William R. Bowen, Centre for Reformation and Renaissance Studies. 321 Pratt Library. 2 p.m. (Reformation & Renaissance Studies)

Historians and the Causes of the English Civil War.

Friday, March 20
Prof. G.E. Aylmer, Oxford University. Croft Chapter House, University College. 2 to 4 p.m. (History and UC)

Light Lasers and Living Colour Through the Centuries.

Sunday, March 22
Prof. Geraldine A. Kenney-Wallace, Department of Chemistry. Auditorium, Medical Sciences Building. 3 p.m. (Royal Canadian Institute)

The Princess of the Stars.

Monday, March 23
R. Murray Schafer, composer, will present his work and talk about music and ecology. Coach House, 39A Queen's Park Cres. 7.30 p.m. (McLuhan Program)

SEMINARS

Attitudes of U.S. Congressmen Toward India.

Monday, March 9
Prof. A.G. Rubinoff, Department of Political Science. History common room, 2090A, Sidney Smith Hall. 3 p.m. (South Asian Studies)

Combination Proteotherapy with Tumour Necrosis Factor and Interleukin-2.

Tuesday, March 10
Jeffry Winkelhake, Cetus Corporation. 519 Pharmacy Building. 9 a.m. (Pharmacy)

Discussions with Harry J. McSorley.

Wednesday, March 11
Based on the Kelly Lecture in Theology given by Joseph Cardinal Bernardin, Chicago. Seminar Room, Brennan Hall, 81 St. Mary St. 8 p.m. (St. Michael's)

The Social Fabric: Reconstructing the Threads of History.

Thursday, March 12
Max Allen, Museum for Textiles, Toronto. 158 Wallberg Building. 3.30 p.m. (Collegium Archaeometricum)

Sugar Maple Decline: Is Air Pollution Involved?

Thursday, March 12
Prof. Tom Hutchinson, Institute for Environmental Studies. 211 Haultain Building. 4 p.m. (IES)

Episodic Events and Long-term Trends: Components in Defining Ecosystem Tolerance to Acid Deposition.

Thursday, March 12
Prof. Harold Harvey, Department of Zoology. 2082 South Building, Erindale College. 5 p.m. (Erindale Biology)

COLLOQUIA

War and Conflict: Beyond the Military Paradigm.

Tuesday, March 10
Prof. John McMurtry, University of Guelph. 152 University College. 4 p.m. (Philosophy)

Infrared Emission from Bok Globules.

Wednesday, March 11
Prof. Christopher Rogers, Department of Astronomy. 137 McLennan Physical Laboratories. 3.10 p.m. (Astronomy)

Superstrings.

Thursday, March 12
Prof. Stanley Deser, Brandeis University. 102 McLennan Physical Laboratories. 4.10 p.m. (Physics)

The Buddhist Period in Chinese History.

Friday, March 13
Prof. W. Theodore de Bary, Columbia University. Upper Library, Massey College. 1.30 p.m. (Centre for Religious Studies and East Asian Studies)

Black Spruce Stand Development and the Constraints on Growth.

Friday, March 13
Prof. T.J. Carleton, Department of Botany. 7 Botany Building. 3.30 p.m. (Botany)

What is Behaviour.

Monday, March 16
Prof. Ruth Millikan, University of Connecticut; cognitive science series. 244 University College. 4 p.m. (McLuhan Program and Philosophy)

Radiolabelled Hypoxic Cell Sensitizers for the Diagnostic Oncology.

Tuesday, March 17
Prof. Leonard I. Wiebe, University of Alberta; M.R.C. visiting professor. 519 Pharmacy Building. 9 a.m. (Pharmacy)

Microencapsulation of Mammalian Cells.

Thursday, March 19
Prof. Michael V. Sefton, Department of Chemical Engineering. 412 Rosebrugh Building. 1 p.m. (Biomedical Engineering)

The Significance of Developmental Constraints on Large-scale Patterns of Vertebrate Evolution.

Thursday, March 19
Prof. Robert Carroll, McGill University. 2082 South Building, Erindale College. 5 p.m. (Erindale Biology)

Chemistry of the Silicon-Silicon Double Bond.

Friday, March 13
Prof. Robert C. West, University of Wisconsin. 428 Lash Miller Chemical Laboratories. 2 p.m.

Ligano Transformations and Catalysis by Metal Carbonyl Cluster Compounds.

Friday, March 13
Prof. Richard D. Adams, University of South Carolina. 158 Lash Miller Chemical Laboratories. 3.30 p.m.

Large Scale Structure in the Universe.

Wednesday, March 18
Prof. P.J.E. Peebles, Princeton University. 137 McLennan Physical Laboratories. 3.10 p.m. (Astronomy)

Inter-faith Tolerance.

Thursday, March 19
Prof. W. Klassen, Department of Religious Studies. Croft Chapter House, University College. 2 p.m.

Quantum Properties of Spin-polarized Helium-3.

Thursday, March 19
Prof. Michelle Le Duc, Ecole Normale Supérieure, Paris. 102 McLennan Physical Laboratories. 4.10 p.m. (Physics)

On the Concept of Mind in Tsung-Mi, the 9th Century Chinese Buddhist Monk.

Friday, March 20
Prof. Jan Yun-hua, McMaster University. Centre for Religious Studies Lounge, 14-352 Robarts Library. 1.15 p.m. (Centre for Religious Studies)

Mircea Eliade and the History of Religions.

Friday, March 20
Prof. Kurt Rudolph, Visiting Professor, Harvard Divinity School. Centre for Religious Studies Lounge, 14-352 Robarts Library. 3 p.m. (Centre for Religious Studies)

Cytodifferentiation in Plant Cell Tissue Culture.

Friday, March 20
F. Constabel, NRC Plant Biotechnology Institute, Saskatoon. 7 Botany Building. 3.30 p.m. (Botany Graduate Students Association)



The unicorn, a symbol of strength and beauty was the trademark of the Curwen Press, whose works are on display at the Thomas Fisher Rare Book Library. See Exhibitions for details.



Teetzel Lectures University College's Social and Architectural History

PART I

- | | | |
|-----------------|----------------|---|
| G.M. CRAIG | March 3, 1987 | The State College before Federation, 1853-1887 |
| G.M. CRAIG | March 5, 1987 | The State College after Federation, 1887-1906 |
| J.M.S. CARELESS | March 10, 1987 | The College and Mid-Victorian Toronto, 1853-1879 |
| J.M.S. CARELESS | March 12, 1987 | U.C. in a Would-Be Metropolis, 1880-1906 |

4:30 pm. Room 140, University College,
15 King's College Circle, University of Toronto

PART II on the Architectural History will be given in October 1987 by D.S. Richardson.

MEETINGS & CONFERENCES

Where Are the Women? What Is Being Done to Increase Their Numbers in Mathematics, Science and Technology?

Thursday, March 12
Provost Joan E. Foley, moderator; a panel discussion preceding the women's centenary lecture; perspectives from the school, the university and the workplace. 1016 New College. 2.30 to 3.45 p.m. (Status of Women Office)

Academic Affairs Committee.

Thursday, March 19
Council Chamber, Simcoe Hall. 4 p.m.

Useful Work versus Useless Toil.

Friday, March 20
Symposium of the William Morris Society of Canada. Keynote address, Prof.

Abraham Rotstein. 8 p.m. Admission \$5; faculty, students and symposium registrants free.

Saturday, March 21
The 19th Century Context. 10 a.m.
The Present to the Future. 2 p.m.
Sessions in 140 University College.
Birthday party; toast to Morris by Walter Pitman. UC Union. 8 p.m.
Registration fee \$25, members and faculty \$20, students \$9.

Information and registration: J. Wichelow, 465-3812. (UC and William Morris Society)

Planning & Resources Committee.

Monday, March 23
Council Chamber, Simcoe Hall. 4 p.m.

PLAYS & READINGS

University College Playreading Group.

Wednesday, March 11
Erika Ritter, CBC; Visiting Playwright series. UC Union. 6 p.m. (UC)

Peter Stevens.

Wednesday, March 11
Workshop and reading. R-3230, Scarborough College. 7 to 9 p.m.

Audrey Thomas.

Friday, March 13
Sounding the Difference:

Readings by Women series. Library, Hart House. 7.30 p.m.
(Women's Studies and Canadian Literature & Language Program)

Christine Donald.

Tuesday, March 17
Poet reads from her work *The Fat Woman Measures Up*. Faculty Lounge, Scarborough College. 4 p.m.

University College Playreading Group.

Wednesday, March 18
Tom Hendry; Visiting Playwright series. UC Union. 4 p.m. (UC)

MUSIC

ROYAL CONSERVATORY OF MUSIC

Noon Hour Series.
Wednesday, March 11
Dianne Aitken, flute. 12.15 p.m.

Conservatory Singers.

Wednesday, March 11
Giles Bryant, conductor. St. Anne's Anglican Church, 270 Gladstone St. 8 p.m.
Tickets \$8, Students and seniors \$5.

New Music Concerts.

Thursday, March 12
Composer's World: profile of Steve Tittle. Concert Hall. 4 p.m.
Tickets \$3, free to Conservatory students and New Music Concerts subscribers.

Friday, March 13
Master class with Arne Nordheim, composer. Concert Hall. 2 p.m. Tickets \$5.

Composer's World: Profile of Arne Nordheim. Recital Hall. 4 p.m.
Tickets \$3.

Royal Conservatory Orchestra

Friday, March 13
Lev Markiz, conductor; ninth in series of 11 concerts. Concert Hall. 8 p.m.
Tickets \$8, students and seniors \$5. RCM box office, 978-5470.

Young Artists Series

Thursday, March 19
Michael Rusinek, clarinet. Concert Hall. 5.15 p.m.

Contemporary Music Ensemble.

Friday, March 20
Timothy Sullivan, director. Concert Hall. 5.15 p.m.

Information on all Conservatory concerts available from publicity office, 978-3771.

FACULTY OF MUSIC EDWARD JOHNSON BUILDING

Thursday Noon Series.
Thursday, March 12
Recital featuring music by student composers. Walter Hall. 12.10 p.m.

Mozart's L'Oca del Cairo and Ibert's Angélique.

Friday, March 13 and Saturday, March 14
An Opera Division presentation. MacMillan Theatre. 8 p.m.
Tickets \$15, students and seniors \$10.

U of T Jazz Ensemble.

Sunday, March 15
David Elliott, director; an evening of big band sounds. Walter Hall. 8 p.m.
Tickets \$3.

U of T Guitar Ensemble.

Friday, March 20
Eli Kassner, director; Bryan Martin, conductor. Walter Hall. 8 p.m.
Tickets \$3.

U of T Concert Band.

Sunday, March 22
W. Bramwell Smith, conductor. MacMillan Theatre. 3 p.m.
Tickets \$3.

Information on all events in the Edward Johnson Building available from the box office, 978-3744

SCARBOROUGH COLLEGE

Scarborough College Chorus.

Sunday, March 22
Meeting Place, Scarborough College. 3 p.m.

EXHIBITIONS

SCARBOROUGH COLLEGE

Teresa Dobrowolska.
To March 13
Sculpture exhibition.

Student Photography

March 22 to March 27
A student photography club show. The Gallery, Scarborough College.
Gallery hours: Monday to Thursday, 11 a.m. to 4 p.m.

VICTORIA UNIVERSITY

Tapestries by Maria Ciechomska and Watercolours by Boguslaw Mosiolski.

To March 13
Alumni Hall, Victoria College.
Hours: Monday to Friday, 9 a.m. to 5 p.m.

The Coleridge Collection.

March 16 to April 30
E.J. Pratt Library, Victoria University.
Gallery hours: Monday to Thursday, 8 a.m. to 12 mid-night; Friday, 8.45 to 6 p.m.; Saturday, 12 noon to 5 p.m.; Sunday, 1 to 10 p.m.

ROBARTS LIBRARY

Evolution of Medical Illustration.

To March 27
A historical survey of art in the service of medicine. Main Display Area.
Hours: Monday to Friday, 8.30 a.m. to 12 midnight; Saturday, 9 a.m. to 5 p.m.; Sunday, 1 to 10 p.m.

FILMS

Ahmedabad — Life of a City.

Wednesday, March 11
Room 153, Level A, Sigmund Samuel Library. 12 noon to 12.30 p.m.

Thomas Fisher Rare Book Library

The Curwen Press 1863 — 1984.

To March 31
Hours: Monday to Friday, 9 a.m. to 5 p.m.

FACULTY OF ARCHITECTURE & LANDSCAPE ARCHITECTURE

Governor-General's Medals for Architecture, 1986; Canadian Society of Landscape Architects Awards, 1987; Study Abroad Program in Paris and Rome, Fall, 1986.

March 10 to March 20
The Galleries, 230 College St.
Gallery hours: Monday, Tuesday, Wednesday and Friday, 9 a.m. to 5 p.m.; Thursday, 9 a.m. to 9 p.m.

JUSTINA M. BARNICKE GALLERY, HART HOUSE

March 12 to March 26

65th Annual Exhibit of Photographs.

Sponsored by the Hart House Camera Club Committee. East Gallery.

Hart House Art Competition.

Sponsored by the Hart House Art Committee. West Gallery.
Gallery hours: Tuesday to Thursday, 11 a.m. to 9 p.m.; Friday and Saturday, 11 a.m. to 6 p.m.; Sunday 2 to 5 p.m.

Innis Spring Film Program

Thursday, March 12
Strongman Ferdinand, and Power of the Emotions; Alexander Kluge double bill.

Thursday, March 19
Bette Davis double bill. Innis College Town Hall. 7 p.m.
Tickets \$2.

Information: 978-7023.

MISCELLANY

Erindale Wednesday Noon Series.

Monday, March 11
Ronnie Brown, comedy sketches. The Gallery, Erindale College. 12 noon.

Venice.

Wednesday, March 11
Cities of Italy, lunchtime videos. 004 Northrop Frye Hall, Victoria College. 12.15 p.m. (Renaissance Studies)

An Evening of Chinese Classical Dance.

Monday, March 16
Chinese Folk Dance Group of Toronto under the direction of Ms. Winnie Pang. George Ignatieff Theatre, Devonshire Place. 7.50 p.m. (East Asian Studies)

Encore: A Festival of the Arts.

Monday, March 16 to Friday, March 20
Featuring professional, community and student artists in performance, literature and visual arts. Scarborough College.
For details of program call 284-3243.

Bologna.

Wednesday, March 18
Cities of Italy, lunchtime videos. 004 Northrop Frye Hall, Victoria College. 12.15 p.m. (Renaissance Studies)

A Conversation with the Minister of Finance.

Friday, March 20
Hon. Michael Wilson. George Ignatieff Theatre, Devonshire Place. 11 a.m.
Tickets free on first-come, first-served basis in front lobby, Simcoe Hall, Monday, March 16, 10 a.m. to 12 noon.

Book Sale

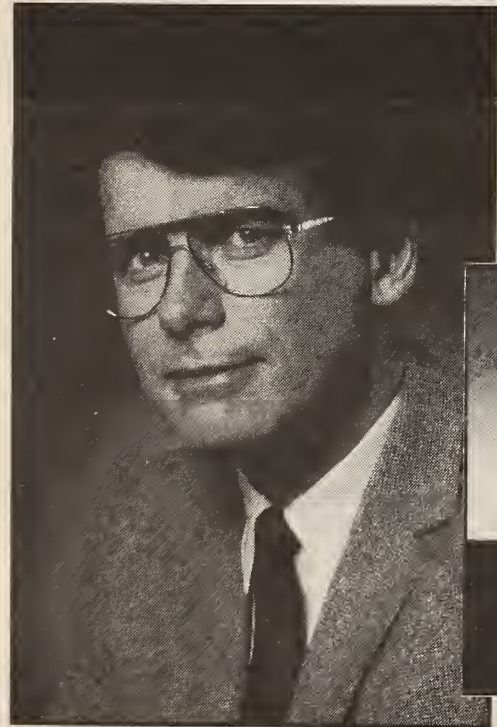
Friday, March 20 and Saturday, March 21
New Seminar Room, Massey College.
Admission \$1 on Friday, Saturday \$.50.
Hours: Friday, 8 to 10 p.m., Saturday, 10 a.m. to 3 p.m. (Massey College)

Events deadlines

Please note that information for Events listings must be received in writing at the Bulletin offices, 45 Willcocks St., by the following times:

Events taking place March 23 to April 6:
Monday, March 9

Events taking place April 6 to April 20
Monday, March 23



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LETTERS

Can't compete internationally if institutional support inadequate

President Connell's letter to the *Bulletin* of Feb. 23 as well as Professor Hirst's in the preceding issue are a welcome new focus on the question of comparative salary scales at U of T relative to those at the major US universities.

Professor Hirst is correct in believing that the 12-month salaries at U of T are below the nine-month salaries at the prestige or major institutions to the south. But the actual income for our US colleagues is usually much higher than the nine-month salary number would suggest. Most of my research colleagues in the US supplement their nine-month university salary with an additional two months of similar monthly salary from their research grants. This of course is easier in the physical sciences and engineering disciplines than in the social sciences or humanities. But there are other opportunities for additional income, such as summer teaching. The 12th month is the "unpaid" annual holiday month. If the two-month income supplement is added, then the average annual salary, for all 108,818 full professors at the 162 PhD granting institutions surveyed, in the recent American Association of University Professors (AAUP) bulletin, is \$77,100 per year in Canadian dollars. This is 18 percent higher than the average \$65,300 a full professor receives at U of T. The comparison with an institution such as Harvard is of course far more striking, as the table below demonstrates. The Harvard full professor salary for 11 months is 65 percent higher than the similar annual U of T number and even for nine months Harvard is 29 percent higher than the U of T annual scale. What is more surprising perhaps is that the full professor salary at SUNY in Buffalo is ahead of U of T in the 11-month as well as the nine-month comparison.

The small data sample shown in my table comes from the extensive, 71-page annual survey commissioned by the AAUP and is published in their bulletin *ACADEME*, which is available at the Robarts Library. It also shows that the US institutions provide a benefit compensation package in the range of an additional 20 percent above salary, similar to that of U of T. It should be noted that the US salaries quoted in the table do not include data from medical school appointments. This inclusion could make the comparison even more extreme. Although one can always quibble about details in any comparison, the general statement that U of T salaries, in terms of purchasing power, are behind those of the major US institutions seems true.

What is most important to me personally is not that my own salary increases, but rather that we as an academic research institution aspire to be the best in Canada and among the best in the world. I don't believe this is possible if our institutional support is inadequate to this goal. How long can we continue to compete internationally if our salary budgets and our research grants, infrastructure support for libraries, computing and the like, continue to lag significantly behind our competition outside Canada? This of course is the message our senior administrators should be taking to Queen's Park, to Ottawa and to the press, and not the view that the recent two percent salary catch-up component for the U of T faculty is unjustified. Unless we address the real problem, our slow (perhaps imperceptible to some) institutional drift into the backwaters of academic research and instruction will continue.

George J. Luste
Department of Physics

Salary Comparisons, U of T and US Institutions

Institution	1985/86 Average Annual Salary in Canadian Dollars		
	Professor	Associate Professor	Assistant Professor
(1) U of T (12 months)	\$65,300	\$52,000	\$37,700
United States, average of 162 PhD level institutions			
(2) [9 mo salary]	[63,100]	[45,300]	[38,000]
(3) (AAUP numbers × 1.333 Can/US) scaled to 11 mo salary	77,100	55,400	46,400
Public Institutions, scaled to 11 mo salary			
(4) U of North Carolina	82,600	60,000	50,000
(5) Ohio State	83,100	61,000	51,700
(6) U of Illinois	83,100	58,000	51,300
(7) U of Michigan	84,400	62,400	52,500
(8) SUNY at Buffalo	86,100	61,500	48,600
(9) U of Calif at Berkeley	96,500	62,300	54,000
Private Institutions			
(10) MIT	95,200	67,500	54,000
(11) Stanford	102,900	70,400	56,600
(12) Harvard	107,600	58,500	51,000

Governing Council election reminder

Ballots were mailed Feb. 18, 19 and 20 to all eligible voters for this year's Governing Council election in the Graduate Student Constituency II.

Any eligible voter who has not received a ballot may telephone the Governing Council Secretariat at 978-6576 to obtain one.

Completed ballots must be returned

to the Governing Council Secretariat, room 106, Simcoe Hall, prior to *noon, March 10*. Return them in person, by campus mail or by Canada Post. *Be sure to fill in the information required in the upper left-hand corner of the return envelope; failure to do so may result in invalidation of your ballot.*

Search committee, TST director

A search committee has been established for a director of the Toronto School of Theology (TST), a federation of seven theological colleges, affiliated with U of T, granting both basic and advanced degrees in theology and ministry. The director would serve a five-year term beginning July 1, 1987.


Members are: Principal Peter Mason, Wycliffe College (*chairman*); President Jacques Monet, Regis College; Principal Douglas Jay, Emmanuel College; Dean Attila Mikloschazy, St. Augustine's College; Professor Dan Donovan, St. Michael's College; Professor John Hurd, Trinity College; Jean Goulet, St. Michael's College (representing advanced degree students); Sarah Whitehead, Knox College (representing basic degree students); Fred Berlet and Ann

Van Fossen, lay trustees; Professor Robert Taylor, Centre for Medieval Studies; Professor John Slater, Department of Philosophy; and Don Cameron (*secretary*).

Applications or nominations may be made to any member of the search committee before March 16.

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CLASSIFIED

A classified ad costs \$8 for up to 35 words and \$.25 for each additional word. Your name counts as one word as does your phone number, but the components of your address will each be counted as a word. No charge for postal code.

A cheque or money order payable to University of Toronto must accompany your ad.

Ads must be submitted in writing, 10 days before Bulletin publication date, to Marion de Courcy-Ireland, Department of Communications, 45 Willcocks St., Toronto, Ontario M5S 1A1. Ads will not be accepted over the phone.

Accommodation Rentals Available - Metro

Furnished 3 bedroom, 3 storey Cabbagetown home. Fully renovated, 1½ baths, 5 appliances, walk-out to deck, fenced yard, central air. From June 1/87 for 12 months. \$1600 a month + utilities. 365-0028.

To Sublet: Very large furnished apartment, for academic year 1987-1988. 3 bedrooms (set up as 1 bedroom and two studies), 2 bathrooms, 2 balconies, fully furnished and equipped, views, next to St. Clair West subway station; easy commute to University of Toronto or to York University. \$1200 per month, utilities and parking included. Available June or July 1987. Contact: Jean Matthews, History Dept., University of Western Ontario, London, Ont. N6A 5C2. tel: day (519) 661-3646, evening (519) 673-0420.

Newly decorated renovated rooms in a bright large private home near U of T. All utilities included. Shared kitchen and bathroom. Could be furnished. Immediate occupancy. References required. 920-4038.

Furnished townhouse, mid-March to end of April. Two bedrooms, study, living, morning room, kitchen, bathroom, garden. Ten minutes walk from University and forty restaurants. \$250 per week, ono. For further information call (416) 923-5658.

Furnished home, Royal York/Eglinton area. 3 bedrooms, office, family room, 2½ bath, double garage, fenced garden. Available May 1, 1987 — December 31, 1987 at \$1,500 + utilities per month. Non-smokers. References. Call 978-4723/241-6758.

July-August. Restored Victorian near U of T. 4 bed, 2 bath, 2 studies, large living room, formal dining room, excellent kitchen, decks, sauna, walled garden, parking. Non-smokers. \$1000 monthly + garden care, utilities. Hacking, 391 Markham St. M6G 2K8.

Furnished home available July 1-Oct. 31. Broadview/Danforth area. Close to Chester subway stop. Two bedrooms and study. Parking. Non-smokers. Children welcome. References. \$1000/month plus utilities. Please call 978-6962 days/465-7815 evenings.

Two-bedroom, two full-bathroom, downtown condo, available Sept. 1/87-Aug. 31/88. 14th floor, southern exposure, with spectacular views of downtown Toronto and Lake Ontario. Nine-foot ceilings, fully furnished. Rent \$1300/month, all inclusive except telephone. Walking distance to fine restaurants, entertainment and shopping. Twenty minute walk to U of T campus. Call Prof. Greiner, (416) 978-3324 (office), 923-7732 (residence).

Furnished House for Rent. May 10th — July 31st. Jane/Annette area. 3 bedroom, finished basement, garden/terrace. Humber River/Park around corner. \$1300/mo. 767-9109.

Sabbatical house to rent, July 1987 — August 1988. Small, renovated townhouse, central Toronto, walking distance University of Toronto, OISE and ROM. Living/diningroom, kitchen, bathroom, 2 bedrooms plus attic bedroom, study, leisure room. Five appliances. Air-conditioning. Small private backyard, quiet street. \$1400 + utilities. Call (416) 929-5160.

Summer Rental, Robert St. at Sussex. Professor's 2 bedroom furnished, renovated Victorian home. 1 block from campus. Available 1st May — 31st August. \$900/mo. includes utilities. 929-9092.

Bloor/Brunswick furnished two bedroom house. Large livingroom, dining area, sundeck, garden. Washer, drier, dishwasher, crockery, cutlery and linens. Permit parking. Available 9-12 months beginning August or September. Animals no problem. \$1250/month plus utilities. Call 961-6062 and leave message on recorder.

Furnished Home — 3 bedrooms, study, 2½ new bathrooms, new kitchen, deck, garden, prime residential area, Lawrence & Avenue Rd., easy access to University, available Aug. 20 — July 15 (negotiable), non-smokers, no pets, \$1800/month plus utilities. 781-5919 evenings.

College/Bathurst. Charming renovated cottage, furnished. Large loft, study, woodstove, garden, parking, unfinished basement. Sept/87 — May/88. \$1200 plus. References required. Tessa — 868-0671.

Rosedale sabbatical rental, downtown Toronto: furnished 9 room house, 2½ baths, separate din/rm, 2 fireplaces, den, playroom, deck, fenced patioed garden, piano, 5 appliances. Quiet tree-lined crescent, near TTC, park, shops. Mid/late summer '87 — summer '88. \$2,000/mo. 960-4964.

Accommodation Rentals Required

Furnished house. Academic year 1987-88 from approx. Sept. for U. of Regina (Sask.) prof. on sabbatical. Non-smokers. No children. Dates flexible. Minimum two bedrooms plus study or third bedroom. Near subway. Phone: (306) 522-0507, Peter, Eleanor Smollett.

Princeton professors, non-smoking, seek spacious apartment (3-bedroom or large 2-bedroom) or house for rental from June 1 or Sept. 1, 1987 to June 1 or Sept. 1, 1988. Prefer walking distance to campus. Exchange for spacious Princeton townhouse possible. Phone (609) 924-4912 or write Ian Balfour, 40 Western Way, Princeton NJ 08544.

2 or 3 Bedroom furnished house (or apartment) 1 September 1987 — 30 June (or possibly 31 August) 1988. References available. Rent negotiable. Call collect (403) 286-7063 evenings or write Denis Salter, 4020 Varsity Dr. N.W., Calgary, Canada T3A 0Z6.

Wanted to rent (or house sit) fully furnished/equipped apartment with parking near University for visiting professor May 11 — August 15 or any part thereof. Write R. Soligo, 4067 Drummond St., Houston, Texas, 77025 or telephone (713) 665-5652.

Furnished bachelor or one-bedroom apartment wanted by visiting professor, September 1, 1987 to April 30, 1988, convenient to St. George campus. Please call S. Shokranian at (609) 734-8172.

Wanted — Visiting physician wants to rent furnished house from June/87 — December/87. Contact Dr. Sandy Kunkle (616) 957-3528.

Wanted to Rent. 3 or 4 bedroom furnished house for sabbatical. Central Toronto. Sept. 1987 — April/May 1988. Would be willing to exchange home in Vancouver near UBC. Contact Prof. Tony Dawson, 3952 W. 13th St., Vancouver V6R 2T2. (604) 228-1350 or E. Deutsch (Toronto) 978-4660.

August: three/four bedroom house or apartment wanted by visiting academic and family for one month only. Rent, or exchange for house in London. Write Weber, 50 Ufton Road, London N1 4HH, U.K., or phone Toronto 967-5693.

Accommodation Out-of-town

Summer Rental. For rent, century stone farmhouse, 12 acres, 90 km. east of Toronto, near Lake Ontario at Newcastle, 3 bedrooms, den, family room, piano, garden, month of July only, \$1,000, references 487-2487.

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Aix-en-Provence, South of France. A 3-bedroom house (furnished) in the picturesque village of Puylobier, 20 km. east of Aix. Available August 1987 — June 1988. \$400/month + utilities. Beth, 533-8844 (after 8 p.m.) or 978-7458 (days).

Sabbatical retreat, South of France. Montpellier 18km., Mediterranean 30 km. House, part of former chateau, 3 bedrooms, fully furnished and equipped; garage, telephone, courtyard garden. August 1, 1987 to June 30, 1988. \$600 monthly. 978-2652 or 690-4481.

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A French law student (female, 22 years old) from France who is also an undergraduate English student is looking for a family in the Toronto area to stay with during all or part of the 1987 summer in an "au pair" arrangement (to work in the home in exchange for room and board). She can communicate fairly well in English. For more information please contact: Daniela S. at 978-6857, 923-0433 or 925-2833.

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